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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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**January 1989**





# **Alberta Oil Sands Plant Statistics Monthly Supplement**

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ENERGY RESOURCES CONSERVATION BOARD  
STATISTICAL SERIES



# Alberta Oil Sands Plant Statistics Monthly Supplement

ALBERTA OIL SANDS PLANT STATISTICS  
MONTHLY SUPPLEMENT

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STATISTICS DEPARTMENT AT (403) 297-2537





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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 °C.
3. LIQUID VOLUME AT 15 °C.

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## NOTES

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- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.





BITUMEN SYNTHETIC PLANT OPERATIONS

1

|                 |                     | 1989                           | JANUARY  |
|-----------------|---------------------|--------------------------------|----------|
|                 |                     | YEAR                           | MONTH    |
| OPERATOR        | SUNCOR<br>OIL SANDS | SYNCRUDE<br>OIL SANDS          |          |
|                 | TONNES              | TONNES                         | GRADE    |
| PRODUCTION      | 3 436 852           | 9 410 709                      | 11.20    |
| PROCESSED       | 3 736 852           | 9 100 416                      | 10.37    |
|                 |                     |                                | 10.53    |
| EXTERNAL ENERGY |                     | EXTERNAL ENERGY                |          |
|                 | GAS                 | GAS                            | ELECTRIC |
|                 | 3 3                 | 10 <sup>3</sup> m <sup>3</sup> | GWh      |
| PURCHASED       | 17 651.0            | 93 768.0                       | 17.0     |
| GENERATED       | 0.0                 | 0.0                            | 104.4    |
|                 | 17 651.0            | 93 768.0                       | 121.4    |
| PLANT USE       | 7 952.2             | 42 205.0                       | 121.4    |
| FURTHER         |                     |                                |          |
| PROCESSING      | 9 698.8             | 51 563.0                       | 0.0      |
| FLARED          | 0.0                 | 0.0                            | 0.0      |
| METERING        |                     |                                |          |
| DIFFERENCE      | 0.0                 | 0.0                            | 0.0      |
|                 | 17 651.0            | 93 768.0                       | 121.4    |

|                |           |         |
|----------------|-----------|---------|
| PRODUCTION     | 9 410 709 | 440 811 |
| FUEL           | 0         | 0       |
| FLARED/BLAST   | 0         | 0       |
| NET. DIFF      | 0         | 4 501   |
| DILUENT CARBON | 0         | 0       |
| WAXEN          | 0         | 0       |
| TO SUNCOR      | 0         | 0       |
| DELIVERIES     | 0         | 0       |

NOTE: (1) TONNES

NOTE: (2) REPORTING



## BITUMEN SYNTHETIC PLANT OPERATIONS

2

| OPERATOR                    | PRODUCTS               |                            | 1989          |            |  |           | JANUARY    |  |
|-----------------------------|------------------------|----------------------------|---------------|------------|--|-----------|------------|--|
|                             |                        |                            | YEAR          |            |  |           | MONTH      |  |
|                             |                        |                            | INTERMEDIATES |            |  |           |            |  |
|                             | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE          | SULPHUR    |  | BITUMEN   | DISTILLATE |  |
|                             | 3<br>m                 | 3<br>m                     | TONNES        | TONNES     |  | 3<br>m    | 3<br>m     |  |
| SUNCOR                      |                        | Diluent<br>Naptha (1)      |               |            |  |           |            |  |
| OPEN. INV.                  | 84 125.5               | 48 123.3                   | 2 497 965     | 159 200    |  | 32 386.7  | 4 386.4    |  |
| FR. SYNCRUDE                | 0.0                    | 0.0                        | 0             | 0          |  | 0.0       | 0.0        |  |
| PRODUCTION                  | 260 953.1              | 6 980.6                    | 81 519        | 10 835 (A) |  | 336 500.3 | 275 194.9  |  |
| CLOS. INV.                  | 68 780.4               | 47 181.7                   | 2 512 073     | 156 191    |  | 19 927.9  | 6 430.0    |  |
|                             | 276 298.2              | 7 922.2                    | 67 411        | 13 844     |  | 348 959.1 | 273 151.3  |  |
| FURTHER<br>PROCESSING       | 0.0                    | 0.0                        | 0             | 0          |  | 348 959.1 | 272 018.2  |  |
| FUEL                        | 4 057.8                | 7 922.3                    | 67 410        | 0          |  | 0.0       | 1 105.7    |  |
| FLARED/WASTE                | 0.0                    | 0.0                        | 0             | 865        |  | 0.0       | 0.0        |  |
| MET. DIFF.                  | (16.2)                 | (0.1)                      | 1             | 0          |  | 0.0       | 27.4       |  |
| DELIVERIES                  | 272 256.6              | 0.0                        | 0             | 12 979     |  | 0.0       | 0.0        |  |
|                             | 276 298.2              | 7 922.2                    | 67 411        | 13 844     |  | 348 959.1 | 273 151.3  |  |
| SYNCRUDE                    |                        | Diluent<br>Naptha          |               |            |  |           |            |  |
| OPEN. INV.                  | 25 125                 | 66 761                     | 7 529 243     | 1 545      |  | 233 159   | 121 244    |  |
| FR. SUNCOR                  | 0                      | 0                          | 0             | 0          |  | 0         | 0          |  |
| PRODUCTION                  | 697 006 (B)            | 12 866 (C)                 | 85 916        | 29 438     |  | 862 779   | 782 421    |  |
| CLOS. INV.                  | 33 294                 | 76 008                     | 7 615 159     | 1 971      |  | 139 588   | 201 293    |  |
|                             | 688 837                | 3 619                      | 0             | 29 012     |  | 956 350   | 702 372    |  |
| FURTHER<br>PROCESSING       | 0                      | 0                          | 0             | 0          |  | 956 349   | 692 811    |  |
| FUEL                        | 3 510                  | 0                          | 0             | 0          |  | 0         | 0          |  |
| FLARED/WASTE                | 0                      | 3 620                      | 0             | 0          |  | 0         | 0          |  |
| MET. DIFF.                  | (15)                   | (1)                        | 0             | 0          |  | 1         | 9 561      |  |
| DILUENT CARRYOVER<br>/RERUN | 0                      | 0                          | 0             | 0          |  | 0         | 0          |  |
| TO SUNCOR                   | 0                      | 0                          | 0             | 0          |  | 0         | 0          |  |
| DELIVERIES                  | 685 342                | 0                          | 0             | 29 012     |  | 0         | 0          |  |
|                             | 688 837                | 3 619                      | 0             | 29 012     |  | 956 350   | 702 372    |  |

NOTE: (1) INVENTORY IS CHANGED DUE TO DIFFERENT METHOD OF REPORTING.



|                     |           |          | 1989                  |           | JANUARY  |  |
|---------------------|-----------|----------|-----------------------|-----------|----------|--|
|                     |           |          | YEAR TO DATE          |           |          |  |
| SUNCOR<br>OIL SANDS |           |          | SYNCRUDE<br>OIL SANDS |           |          |  |
|                     | TONNES    | GRADE    |                       | TONNES    | GRADE    |  |
| PRODUCTION          | 3 436 852 | 11.20    | PRODUCTION            | 9 410 709 | 10.37    |  |
| PROCESSED           | 3 736 852 | 11.20    | PROCESSED             | 9 100 416 | 10.53    |  |
| EXTERNAL ENERGY     |           |          | EXTERNAL ENERGY       |           |          |  |
|                     | GAS       | ELECTRIC |                       | GAS       | ELECTRIC |  |
|                     | 3 3       |          |                       | 3 3       |          |  |
|                     | 10 m      | GWh      |                       | 10 m      | GWh      |  |
| PURCHASED           | 17 651.0  | 6.3      | PURCHASED             | 93 768.0  | 17.0     |  |
| GENERATED           | 0.0       | 41.2     | GENERATED             | 0.0       | 104.4    |  |
|                     | 17 651.0  | 47.5     |                       | 93 768.0  | 121.4    |  |
| PLANT USE           | 7 952.2   | 47.5     | PLANT USE             | 42 205.0  | 121.4    |  |
| FURTHER             |           |          | FURTHER               |           |          |  |
| PROCESSING          | 9 698.8   | 0.0      | PROCESSING            | 51 563.0  | 0.0      |  |
| FLARED              | 0.0       | 0.0      | FLARED                | 0.0       | 0.0      |  |
| METERING            |           |          | METERING              |           |          |  |
| DIFFERENCE          | 0.0       | 0.0      | DIFFERENCE            | 0.0       | 0.0      |  |
|                     | 17 651.0  | 47.5     |                       | 93 768.0  | 121.4    |  |





## BITUMEN SYNTHETIC PLANT OPERATIONS

4

1989 JANUARY

YEAR TO DATE

| OPERATOR                    | PRODUCTS               |                            | INTERMEDIATES |         |           |            |  |  |
|-----------------------------|------------------------|----------------------------|---------------|---------|-----------|------------|--|--|
|                             |                        |                            | COKE          | SULPHUR | BITUMEN   | DISTILLATE |  |  |
|                             | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS |               |         |           |            |  |  |
|                             | 3<br>m                 | 3<br>m                     | TONNES        | TONNES  | 3<br>m    | 3<br>m     |  |  |
| SUNCOR                      |                        | Diluent<br>Naphtha         |               |         |           |            |  |  |
| OPEN. INV.                  | 84 125.5               | 48 123.3                   | 2 497 965     | 159 200 | 32 386.7  | 4 386.4    |  |  |
| FR. SYNCRUDE                | 0.0                    | 0.0                        | 0             | 0 (A)   | 0.0       | 0.0        |  |  |
| PRODUCTION                  | 260 953.1              | 6 980.6                    | 81 519        | 10 835  | 336 500.3 | 275 194.9  |  |  |
| CLOS. INV.                  | 68 780.4               | 47 181.7                   | 2 512 073     | 156 191 | 19 927.9  | 6 430.0    |  |  |
|                             | 276 298.2              | 7 922.2                    | 67 411        | 13 844  | 348 959.1 | 273 151.3  |  |  |
| FURTHER<br>PROCESSING       | 0.0                    | 0.0                        | 0             | 0       | 348 959.1 | 272 018.2  |  |  |
| FUEL                        | 4 057.8                | 7 922.3                    | 67 410        | 0       | 0.0       | 1 105.7    |  |  |
| FLARED/WASTE                | 0.0                    | 0.0                        | 0             | 865     | 0.0       | 0.0        |  |  |
| MET. DIFF.                  | (16.2)                 | (0.1)                      | 1             | 0       | 0.0       | 27.4       |  |  |
| DELIVERIES                  | 272 256.6              | 0.0                        | 0             | 12 979  | 0.0       | 0.0        |  |  |
|                             | 276 298.2              | 7 922.2                    | 67 411        | 13 844  | 348 959.1 | 273 151.3  |  |  |
| SYNCRUDE                    |                        | Diluent<br>Naphtha         |               |         |           |            |  |  |
| OPEN. INV.                  | 25 125                 | 66 761                     | 7 529 243     | 1 545   | 233 159   | 121 244    |  |  |
| FR. SUNCOR                  | 0                      | 0                          | 0             | 0       | 0         | 0          |  |  |
| PRODUCTION                  | 697 006 (B)            | 12 866 (C)                 | 85 916        | 29 438  | 862 779   | 782 421    |  |  |
| CLOS. INV.                  | 33 294                 | 76 008                     | 7 615 159     | 1 971   | 139 588   | 201 293    |  |  |
|                             | 688 837                | 3 619                      | 0             | 29 012  | 956 350   | 702 372    |  |  |
| FURTHER<br>PROCESSING       | 0                      | 0                          | 0             | 0       | 956 349   | 692 811    |  |  |
| FUEL                        | 3 510                  | 0                          | 0             | 0       | 0         | 0          |  |  |
| FLARED/WASTE                | 0                      | 3 620                      | 0             | 0       | 0         | 0          |  |  |
| MET. DIFF.                  | (15)                   | (1)                        | 0             | 0       | 1         | 9 561      |  |  |
| DILUENT CARRYOVER<br>/RERUN | 0                      | 0                          | 0             | 0       | 0         | 0          |  |  |
| TO SUNCOR                   | 0                      | 0                          | 0             | 0       | 0         | 0          |  |  |
| DELIVERIES                  | 685 342                | 0                          | 0             | 29 012  | 0         | 0          |  |  |
|                             | 688 837                | 3 619                      | 0             | 29 012  | 956 350   | 702 372    |  |  |





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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 ° C.
3. LIQUID VOLUME AT 15 ° C.

---

## NOTES

---

- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.





|                     |           |       | 1989                  | FEBRUARY        |
|---------------------|-----------|-------|-----------------------|-----------------|
|                     |           |       | YEAR                  | MONTH           |
| SUNCOR<br>OIL SANDS |           |       | SYNCRUDE<br>OIL SANDS |                 |
| -----               |           |       | -----                 |                 |
| TONNES              |           |       | TONNES                | GRADE           |
| -----               |           |       | -----                 |                 |
| PRODUCTION          | 3 345 251 | 11.67 | PRODUCTION            | 8 672 585 10.68 |
| =====               |           |       | =====                 |                 |
| PROCESSED           | 3 345 251 | 11.67 | PROCESSED             | 8 366 313 10.55 |
| =====               |           |       | =====                 |                 |
| EXTERNAL ENERGY     |           |       | EXTERNAL ENERGY       |                 |
| -----               |           |       | -----                 |                 |
| GAS                 |           |       | GAS                   | ELECTRIC        |
| 3 3                 |           |       | 3 3                   |                 |
| 10 m                |           |       | 10 m                  | GWh             |
| -----               |           |       | -----                 |                 |
| PURCHASED           | 22 123.4  | 7.1   | PURCHASED             | 93 308.0 19.6   |
| GENERATED           | 0.0       | 37.0  | GENERATED             | 0.0 93.5        |
| -----               |           |       | -----                 |                 |
|                     | 22 123.4  | 44.1  |                       | 93 308.0 113.1  |
| =====               |           |       | =====                 |                 |
| PLANT USE           | 14 660.1  | 44.1  | PLANT USE             | 42 124.0 113.1  |
| FURTHER             |           |       | FURTHER               |                 |
| PROCESSING          | 7 463.3   | 0.0   | PROCESSING            | 51 184.0 0.0    |
| FLARED              | 0.0       | 0.0   | FLARED                | 0.0 0.0         |
| METERING            |           |       | METERING              |                 |
| DIFFERENCE          | 0.0       | 0.0   | DIFFERENCE            | 0.0 0.0         |
| -----               |           |       | -----                 |                 |
|                     | 22 123.4  | 44.1  |                       | 93 308.0 113.1  |
| =====               |           |       | =====                 |                 |



## 2

| YEAR   | MONTH |
|--------|-------|
| 1968   | 1     |
| 1968   | 2     |
| 1968   | 3     |
| 1968   | 4     |
| 1968   | 5     |
| 1968   | 6     |
| 1968   | 7     |
| 1968   | 8     |
| 1968   | 9     |
| 1968   | 10    |
| 1968   | 11    |
| 1968   | 12    |
| 1969   | 1     |
| 1969   | 2     |
| 1969   | 3     |
| 1969   | 4     |
| 1969   | 5     |
| 1969   | 6     |
| 1969   | 7     |
| 1969   | 8     |
| 1969   | 9     |
| 1969   | 10    |
| 1969   | 11    |
| 1969   | 12    |
| 1970   | 1     |
| 1970   | 2     |
| 1970   | 3     |
| 1970   | 4     |
| 1970   | 5     |
| 1970   | 6     |
| 1970   | 7     |
| 1970   | 8     |
| 1970   | 9     |
| 1970   | 10    |
| 1970   | 11    |
| 1970   | 12    |
| 1971   | 1     |
| 1971   | 2     |
| 1971   | 3     |
| 1971   | 4     |
| 1971   | 5     |
| 1971   | 6     |
| 1971   | 7     |
| 1971   | 8     |
| 1971   | 9     |
| 1971   | 10    |
| 1971   | 11    |
| 1971   | 12    |
| 1972   | 1     |
| 1972   | 2     |
| 1972   | 3     |
| 1972   | 4     |
| 1972   | 5     |
| 1972   | 6     |
| 1972   | 7     |
| 1972   | 8     |
| 1972   | 9     |
| 1972   | 10    |
| 1972   | 11    |
| 1972   | 12    |
| 1973   | 1     |
| 1973   | 2     |
| 1973   | 3     |
| 1973   | 4     |
| 1973   | 5     |
| 1973   | 6     |
| 1973   | 7     |
| 1973   | 8     |
| 1973   | 9     |
| 1973   | 10    |
| 1973   | 11    |
| 1973   | 12    |
| 1974   | 1     |
| 1974   | 2     |
| 1974   | 3     |
| 1974   | 4     |
| 1974   | 5     |
| 1974   | 6     |
| 1974   | 7     |
| 1974   | 8     |
| 1974   | 9     |
| 1974   | 10    |
| 1974   | 11    |
| 1974   | 12    |
| 1975   | 1     |
| 1975   | 2     |
| 1975   | 3     |
| 1975   | 4     |
| 1975   | 5     |
| 1975   | 6     |
| 1975   | 7     |
| 1975   | 8     |
| 1975   | 9     |
| 1975   | 10    |
| 1975   | 11    |
| 1975   | 12    |
| 1976   | 1     |
| 1976   | 2     |
| 1976   | 3     |
| 1976   | 4     |
| 1976   | 5     |
| 1976   | 6     |
| 1976   | 7     |
| 1976   | 8     |
| 1976   | 9     |
| 1976   | 10    |
| 1976   | 11    |
| 1976   | 12    |
| 1977   | 1     |
| 1977   | 2     |
| 1977   | 3     |
| 1977   | 4     |
| 1977   | 5     |
| 1977   | 6     |
| 1977   | 7     |
| 1977   | 8     |
| 1977   | 9     |
| 1977   | 10    |
| 1977   | 11    |
| 1977   | 12    |
| 1978   | 1     |
| 1978   | 2     |
| 1978   | 3     |
| 1978   | 4     |
| 1978   | 5     |
| 1978   | 6     |
| 1978   | 7     |
| 1978   | 8     |
| 1978   | 9     |
| 1978   | 10    |
| 1978   | 11    |
| 1978   | 12    |
| 1979   | 1     |
| 1979   | 2     |
| 1979   | 3     |
| 1979   | 4     |
| 1979   | 5     |
| 1979   | 6     |
| 1979   | 7     |
| 1979   | 8     |
| 1979   | 9     |
| 1979   | 10    |
| 1979   | 11    |
| 1979   | 12    |
| 1980   | 1     |
| 1980   | 2     |
| 1980   | 3     |
| 1980   | 4     |
| 1980   | 5     |
| 1980   | 6     |
| 1980   | 7     |
| 1980   | 8     |
| 1980   | 9     |
| 1980   | 10    |
| 1980   | 11    |
| 1980   | 12    |
| 1981   | 1     |
| 1981   | 2     |
| 1981   | 3     |
| 1981   | 4     |
| 1981   | 5     |
| 1981   | 6     |
| 1981   | 7     |
| 1981   | 8     |
| 1981   | 9     |
| 1981   | 10    |
| 1981   | 11    |
| 1981</ |       |

| OPERATOR                | PRODUCTS               |                            | INTERMEDIATES |           |                   |                   |
|-------------------------|------------------------|----------------------------|---------------|-----------|-------------------|-------------------|
|                         | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE          | SULPHUR   | BITUMEN           | DISTILLATE        |
|                         | <sup>3</sup><br>m      | <sup>3</sup><br>m          | TONNES        | TONNES    | <sup>3</sup><br>m | <sup>3</sup><br>m |
| SUNCOR                  |                        | Diluent<br>Naphtha         |               |           |                   |                   |
| OPEN. INV.              | 68 780.4               | 47 181.7                   | 2 512 073     | 156 191   | 19 927.9          | 6 430.0           |
| FR. SYNCRUDE            | 0.0                    | 0.0                        | 0             | 0         | 0.0               | 0.0               |
| PRODUCTION              | 240 893.6              | 4 178.8                    | 73 742        | 9 685 (A) | 342 844.7         | 252 377.5         |
| CLOS. INV.              | 78 551.9               | 45 945.6                   | 2 522 260     | 153 556   | 47 105.5          | 9 071.5           |
|                         | 231 122.1              | 5 414.9                    | 63 555        | 12 320    | 315 667.1         | 249 736.0         |
| FURTHER                 |                        |                            |               |           |                   |                   |
| PROCESSING              | 0.0                    | 0.0                        | 0             | 0         | 315 667.1         | 249 726.6         |
| FUEL                    | 3 542.1                | 0.0                        | 63 555        | 0         | 0.0               | 0.0               |
| FLARED/WASTE            | 0.0                    | 5 414.9                    | 0             | 618       | 0.0               | 0.0               |
| MET. DIFF.              | (108.0)                | 0.0                        | 0             | 1         | 0.0               | 9.4               |
| DELIVERIES              | 227 688.0              | 0.0                        | 0             | 11 701    | 0.0               | 0.0               |
|                         | 231 122.1              | 5 414.9                    | 63 555        | 12 320    | 315 667.1         | 249 736.0         |
| SYNCRUDE                |                        | Diluent<br>Naphtha         |               |           |                   |                   |
| OPEN. INV.              | 33 294                 | 76 008                     | 7 615 159     | 1 971     | 139 588           | 201 293           |
| FR. SUNCOR              | 0                      | 0                          | 0             | 0         | 0                 | 0                 |
| PRODUCTION              | 659 474 (B)            | 3 194 (C)                  | 63 081        | 27 703    | 802 949           | 606 810           |
| CLOS. INV.              | 29 576                 | 74 958                     | 7 678 240     | 1 523     | 201 554           | 159 019           |
|                         | 663 192                | 4 244                      | 0             | 28 151    | 740 983           | 649 084           |
| FURTHER                 |                        |                            |               |           |                   |                   |
| PROCESSING              | 0                      | 0                          | 0             | 0         | 740 983           | 634 957           |
| FUEL                    | 3 558                  | 0                          | 0             | 0         | 0                 | 0                 |
| FLARED/WASTE            | 0                      | 4 244                      | 0             | 0         | 0                 | 0                 |
| MET. DIFF.              | 7                      | 0                          | 0             | 0         | 0                 | 14 127            |
| DILUENT CARRY<br>/RERUN | 0                      | 0                          | 0             | 0         | 0                 | 0                 |
| TO SUNCOR               | 0                      | 0                          | 0             | 0         | 0                 | 0                 |
| DELIVERIES              | 659 627                | 0                          | 0             | 28 151    | 0                 | 0                 |
|                         | 663 192                | 4 244                      | 0             | 28 151    | 740 983           | 649 084           |





1989 FEBRUARY

YEAR TO DATE

SUNCOR  
OIL SANDS

| TONNES | GRADE |
|--------|-------|
|--------|-------|

SYNCRUDE  
OIL SANDS

| TONNES | GRADE |
|--------|-------|
|--------|-------|

|            |           |       |
|------------|-----------|-------|
| PRODUCTION | 6 782 103 | 11.43 |
| PROCESSED  | 6 782 103 | 11.43 |

|            |            |       |
|------------|------------|-------|
| PRODUCTION | 18 083 294 | 10.52 |
| PROCESSED  | 17 466 729 | 10.54 |

## EXTERNAL ENERGY

| GAS  | ELECTRIC |
|------|----------|
| 3 3  |          |
| 10 m | GWh      |

## EXTERNAL ENERGY

| GAS  | ELECTRIC |
|------|----------|
| 3 3  |          |
| 10 m | GWh      |

|           |          |      |
|-----------|----------|------|
| PURCHASED | 39 774.4 | 13.4 |
| GENERATED | 0.0      | 78.2 |
|           | 39 774.4 | 91.6 |

|           |           |       |
|-----------|-----------|-------|
| PURCHASED | 181 529.0 | 36.6  |
| GENERATED | 0.0       | 197.9 |
|           | 181 529.0 | 234.5 |

|            |          |      |
|------------|----------|------|
| PLANT USE  | 22 612.3 | 91.6 |
| FURTHER    |          |      |
| PROCESSING | 17 162.1 | 0.0  |
| FLARED     | 0.0      | 0.0  |
| METERING   |          |      |
| DIFFERENCE | 0.0      | 0.0  |
|            | 39 774.4 | 91.6 |

|            |           |       |
|------------|-----------|-------|
| PLANT USE  | 78 782.0  | 234.5 |
| FURTHER    |           |       |
| PROCESSING | 102 747.0 | 0.0   |
| FLARED     | 0.0       | 0.0   |
| METERING   |           |       |
| DIFFERENCE | 0.0       | 0.0   |
|            | 181 529.0 | 234.5 |



1989 FEBRUARY

YEAR TO DATE

| OPERATOR          | PRODUCTS               |                            | INTERMEDIATES |         |           |            |
|-------------------|------------------------|----------------------------|---------------|---------|-----------|------------|
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE          | SULPHUR | BITUMEN   | DISTILLATE |
|                   | 3<br>m                 | 3<br>m                     | TONNES        | TONNES  | 3<br>m    | 3<br>m     |
| SUNCOR            |                        | Diluent<br>Naptha          |               |         |           |            |
| OPEN. INV.        | 84 125.5               | 48 123.3                   | 2 497 965     | 159 200 | 32 386.7  | 4 386.4    |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0             | 0 (A)   | 0.0       | 0.0        |
| PRODUCTION        | 501 846.7              | 11 159.4                   | 155 261       | 20 520  | 679 345.0 | 527 572.4  |
| CLOS. INV.        | 78 551.9               | 45 945.6                   | 2 522 260     | 153 556 | 47 105.5  | 9 071.5    |
|                   | 507 420.3              | 13 337.1                   | 130 966       | 26 164  | 664 626.2 | 522 887.3  |
| FURTHER           |                        |                            |               |         |           |            |
| PROCESSING        | 0.0                    | 0.0                        | 0             | 0       | 664 626.2 | 521 744.8  |
| FUEL              | 7 599.9                | 0.0                        | 130 965       | 0       | 0.0       | 1 105.7    |
| FLARED/WASTE      | 0.0                    | 13 337.2                   | 0             | 1 483   | 0.0       | 0.0        |
| MET. DIFF.        | (124.2)                | (0.1)                      | 1             | 1       | 0.0       | 36.8       |
| DELIVERIES        | 499 944.6              | 0.0                        | 0             | 24 680  | 0.0       | 0.0        |
|                   | 507 420.3              | 13 337.1                   | 130 966       | 26 164  | 664 626.2 | 522 887.3  |
| SYNCRUDE          |                        |                            |               |         |           |            |
| OPEN. INV.        | 25 125                 | 66 761                     | 7 529 243     | 1 545   | 233 159   | 121 244    |
| FR. SUNCOR        | 0                      | 0                          | 0             | 0       | 0         | 0          |
| PRODUCTION        | 1 356 480 (B)          | 16 060 (C)                 | 148 997       | 57 141  | 1 665 728 | 1 389 231  |
| CLOS. INV.        | 29 576                 | 74 958                     | 7 678 240     | 1 523   | 201 554   | 159 019    |
|                   | 1 352 029              | 7 863                      | 0             | 57 163  | 1 697 333 | 1 351 456  |
| FURTHER           |                        |                            |               |         |           |            |
| PROCESSING        | 0                      | 0                          | 0             | 0       | 1 697 332 | 1 327 768  |
| FUEL              | 7 068                  | 0                          | 0             | 0       | 0         | 0          |
| FLARED/WASTE      | 0                      | 7 864                      | 0             | 0       | 0         | 0          |
| MET. DIFF.        | (8)                    | (1)                        | 0             | 0       | 1         | 23 688     |
| DILUENT CARRYOVER |                        |                            |               |         |           |            |
| /RERUN            | 0                      | 0                          | 0             | 0       | 0         | 0          |
| TO SUNCOR         | 0                      | 0                          | 0             | 0       | 0         | 0          |
| DELIVERIES        | 1 344 969              | 0                          | 0             | 57 163  | 0         | 0          |
|                   | 1 352 029              | 7 863                      | 0             | 57 163  | 1 697 333 | 1 351 456  |






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# **Alberta** **Oil Sands Plant Statistics** **Monthly Supplement**

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**March 1989**







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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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ENERGY RESOURCES CONSERVATION BOARD  
STATISTICAL SERIES

ALBERTA OIL SANDS PLANT STATISTICS  
MONTHLY SUPPLEMENT

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NOTE: INQUIRIES REGARDING THIS PUBLICATION  
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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 ° C.
3. LIQUID VOLUME AT 15 ° C.

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## NOTES

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- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.





|                        | SUNCOR<br>OIL SANDS            |          |
|------------------------|--------------------------------|----------|
|                        | TONNES                         | GRADE    |
| PRODUCTION             | 3 048 178                      | 12.90    |
| PROCESSED              | 3 048 178                      | 12.90    |
| EXTERNAL ENERGY        |                                |          |
|                        | GAS                            | ELECTRIC |
|                        | 10 <sup>3</sup> m <sup>3</sup> | GWh      |
| PURCHASED              | 17 694.8                       | 17.8     |
| GENERATED              | 0.0                            | 19.5     |
|                        | 17 694.8                       | 37.3     |
| PLANT USE              | 8 840.4                        | 37.3     |
| FURTHER<br>PROCESSING  | 8 854.4                        | 0.0      |
| FLARED                 | 0.0                            | 0.0      |
| METERING<br>DIFFERENCE | 0.0                            | 0.0      |
|                        | 17 694.8                       | 37.3     |

|                        | 1989                           | MARCH    |
|------------------------|--------------------------------|----------|
|                        | YEAR                           | MONTH    |
|                        | SYNCRUDE<br>OIL SANDS          |          |
|                        | TONNES                         | GRADE    |
| PRODUCTION             | 8 948 258                      | 10.27    |
| PROCESSED              | 6 108 822                      | 10.45    |
| EXTERNAL ENERGY        |                                |          |
|                        | GAS                            | ELECTRIC |
|                        | 10 <sup>3</sup> m <sup>3</sup> | GWh      |
| PURCHASED              | 103 672.0                      | 18.0     |
| GENERATED              | 0.0                            | 89.5     |
|                        | 103 672.0                      | 107.5    |
| PLANT USE              | 60 256.0                       | 107.5    |
| FURTHER<br>PROCESSING  | 43 416.0                       | 0.0      |
| FLARED                 | 0.0                            | 0.0      |
| METERING<br>DIFFERENCE | 0.0                            | 0.0      |
|                        | 103 672.0                      | 107.5    |



BITUMEN SYNTHETIC PLANT OPERATIONS

|                   |                        | 1989                       |           | MARCH      |                |                |
|-------------------|------------------------|----------------------------|-----------|------------|----------------|----------------|
|                   |                        | YEAR                       |           | MONTH      |                |                |
| OPERATOR          | PRODUCTS               | INTERMEDIATES              |           |            |                |                |
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR    | BITUMEN        | DISTILLATE     |
|                   | m <sup>3</sup>         | m <sup>3</sup>             | TONNES    | TONNES     | m <sup>3</sup> | m <sup>3</sup> |
| SUNCOR            |                        | Diluent<br>Naphtha         |           |            |                |                |
| OPEN. INV.        | 78 551.9               | 45 945.6                   | 2 522 260 | 153 556    | 47 105.5       | 9 071.5        |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0         | 0          | 0.0            | 0.0            |
| PRODUCTION        | 278 765.8              | 8 797.1                    | 86 226    | 11 345 (A) | 351 574.1      | 286 299.3      |
| CLOS. INV.        | 77 079.3               | 49 954.0                   | 2 547 082 | 149 669    | 30 098.2       | 7 990.5        |
|                   | 280 238.4              | 4 788.7                    | 61 404    | 15 232     | 368 581.4      | 287 380.3      |
| FURTHER           |                        |                            |           |            |                |                |
| PROCESSING        | 0.0                    | 0.0                        | 0         | 0          | 368 581.4      | 286 469.4      |
| FUEL              | 4 491.3                | 0.0                        | 61 405    | 0          | 0.0            | 914.1          |
| FLARED/WASTE      | 0.0                    | 4 788.7                    | 0         | 516        | 0.0            | 0.0            |
| MET. DIFF.        | 197.0                  | 0.0                        | (1)       | 0          | 0.0            | (3.2)          |
| DELIVERIES        | 275 550.1              | 0.0                        | 0         | 14 716     | 0.0            | 0.0            |
|                   | 280 238.4              | 4 788.7                    | 61 404    | 15 232     | 368 581.4      | 287 380.3      |
| SYNCRUDE          |                        | Diluent<br>Naphtha         |           |            |                |                |
| OPEN. INV.        | 29 576                 | 74 958                     | 7 678 240 | 1 523      | 201 554        | 159 019        |
| FR. SUNCOR        | 0                      | 0                          | 0         | 0          | 0              | 0              |
| PRODUCTION        | 514 966 (B)            | 4 293 (C)                  | 44 895    | 20 987     | 585 365        | 452 943        |
| CLOS. INV.        | 20 994                 | 68 750                     | 7 723 135 | 1 597      | 234 063        | 101 028        |
|                   | 523 548                | 10 501                     | 0         | 20 913     | 552 856        | 510 934        |
| FURTHER           |                        |                            |           |            |                |                |
| PROCESSING        | 0                      | 0                          | 0         | 0          | 548 882        | 496 094        |
| FUEL              | 4 237                  | 0                          | 0         | 0          | 0              | 0              |
| FLARED/WASTE      | 0                      | 10 501                     | 0         | 0          | 0              | 0              |
| MET. DIFF.        | 15                     | 0                          | 0         | 0          | 3 974          | 14 840         |
| DILUENT CARRYOVER |                        |                            |           |            |                |                |
| /RERUN            | 0                      | 0                          | 0         | 0          | 0              | 0              |
| TO SUNCOR         | 0                      | 0                          | 0         | 0          | 0              | 0              |
| DELIVERIES        | 519 296                | 0                          | 0         | 20 913     | 0              | 0              |
|                   | 523 548                | 10 501                     | 0         | 20 913     | 552 856        | 510 934        |

Note: Metering difference for Bitumen and Distillate include inventory adjustment.



|                     |                                |          | 1989                  | MARCH                              |
|---------------------|--------------------------------|----------|-----------------------|------------------------------------|
|                     |                                |          | YEAR TO DATE          |                                    |
| SUNCOR<br>OIL SANDS |                                |          | SYNCRUDE<br>OIL SANDS |                                    |
|                     | TONNES                         | GRADE    | TONNES                | GRADE                              |
| PRODUCTION          | 9 830 281                      | 11.89    | PRODUCTION            | 27 031 552 10.44                   |
| PROCESSED           | 9 830 281                      | 11.89    | PROCESSED             | 23 575 551 10.52                   |
| EXTERNAL ENERGY     |                                |          | EXTERNAL ENERGY       |                                    |
|                     | GAS                            | ELECTRIC |                       | GAS ELECTRIC                       |
|                     | 10 <sup>3</sup> m <sup>3</sup> | GWh      |                       | 10 <sup>3</sup> m <sup>3</sup> GWh |
| PURCHASED           | 57 469.2                       | 31.2     | PURCHASED             | 285 201.0 54.6                     |
| GENERATED           | 0.0                            | 97.7     | GENERATED             | 0.0 287.4                          |
|                     | 57 469.2                       | 128.9    |                       | 285 201.0 342.0                    |
| PLANT USE           | 31 452.7                       | 128.9    | PLANT USE             | 139 038.0 342.0                    |
| FURTHER             |                                |          | FURTHER               |                                    |
| PROCESSING          | 26 016.5                       | 0.0      | PROCESSING            | 146 163.0 0.0                      |
| FLARED              | 0.0                            | 0.0      | FLARED                | 0.0 0.0                            |
| METERING            |                                |          | METERING              |                                    |
| DIFFERENCE          | 0.0                            | 0.0      | DIFFERENCE            | 0.0 0.0                            |
|                     | 57 469.2                       | 128.9    |                       | 285 201.0 342.0                    |





|                   |                        | 1989                       |           | MARCH   |                |                |           |
|-------------------|------------------------|----------------------------|-----------|---------|----------------|----------------|-----------|
|                   |                        | YEAR TO DATE               |           |         |                |                |           |
| OPERATOR          | PRODUCTS               | INTERMEDIATES              |           |         |                |                |           |
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR | BITUMEN        | DISTILLATE     |           |
|                   | m <sup>3</sup>         | m <sup>3</sup>             | TONNES    | TONNES  | m <sup>3</sup> | m <sup>3</sup> |           |
| SUNCOR            |                        | Diluent                    |           |         |                |                |           |
| -----             |                        | Naptha                     |           |         |                |                |           |
| OPEN. INV.        | 84 125.5               | 48 123.3                   | 2 497 965 | 159 200 | 32 386.7       | 4 386.4        |           |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0         | 0 (A)   | 0.0            | 0.0            |           |
| PRODUCTION        | 780 612.5              | 19 956.5                   | 241 487   | 31 865  | 1 030 919.1    | 813 871.7      |           |
| CLOS. INV.        | 77 079.3               | 49 954.0                   | 2 547 082 | 149 669 | 30 098.2       | 7 990.5        |           |
| =====             |                        | =====                      |           | =====   |                | =====          |           |
|                   |                        | 787 658.7                  | 18 125.8  | 192 370 | 41 396         | 1 033 207.6    | 810 267.6 |
| FURTHER           |                        |                            |           |         |                |                |           |
| PROCESSING        | 0.0                    | 0.0                        | 0         | 0       | 1 033 207.6    | 808 214.2      |           |
| FUEL              | 12 091.2               | 0.0                        | 192 370   | 0       | 0.0            | 2 019.8        |           |
| FLARED/WASTE      | 0.0                    | 18 125.9                   | 0         | 1 999   | 0.0            | 0.0            |           |
| MET. DIFF.        | 72.8                   | (0.1)                      | 0         | 1       | 0.0            | 33.6           |           |
| DELIVERIES        | 775 494.7              | 0.0                        | 0         | 39 396  | 0.0            | 0.0            |           |
| =====             |                        | =====                      |           | =====   |                | =====          |           |
|                   |                        | 787 658.7                  | 18 125.8  | 192 370 | 41 396         | 1 033 207.6    | 810 267.6 |
| SYNCRUDE          |                        |                            |           |         |                |                |           |
| -----             |                        |                            |           |         |                |                |           |
| OPEN. INV.        | 25 125                 | 66 761                     | 7 529 243 | 1 545   | 233 159        | 121 244        |           |
| FR. SUNCOR        | 0                      | 0                          | 0         | 0       | 0              | 0              |           |
| PRODUCTION        | 1 871 446 (B)          | 20 353 (C)                 | 193 892   | 78 128  | 2 251 093      | 1 842 174      |           |
| CLOS. INV.        | 20 994                 | 68 750                     | 7 723 135 | 1 597   | 234 063        | 101 028        |           |
| =====             |                        | =====                      |           | =====   |                | =====          |           |
|                   |                        | 1 875 577                  | 18 364    | 0       | 78 076         | 2 250 189      | 1 862 390 |
| FURTHER           |                        |                            |           |         |                |                |           |
| PROCESSING        | 0                      | 0                          | 0         | 0       | 2 246 214      | 1 823 862      |           |
| FUEL              | 11 305                 | 0                          | 0         | 0       | 0              | 0              |           |
| FLARED/WASTE      | 0                      | 18 365                     | 0         | 0       | 0              | 0              |           |
| MET. DIFF.        | 7                      | (1)                        | 0         | 0       | 3 975          | 38 528         |           |
| DILUENT CARRYOVER |                        |                            |           |         |                |                |           |
| /RERUN            | 0                      | 0                          | 0         | 0       | 0              | 0              |           |
| TO SUNCOR         | 0                      | 0                          | 0         | 0       | 0              | 0              |           |
| DELIVERIES        | 1 864 265              | 0                          | 0         | 78 076  | 0              | 0              |           |
| =====             |                        | =====                      |           | =====   |                | =====          |           |
|                   |                        | 1 875 577                  | 18 364    | 0       | 78 076         | 2 250 189      | 1 862 390 |
| =====             |                        | =====                      |           | =====   |                | =====          |           |

Note: Metering difference for Bitumen and Distillate include inventory adjustment.



Stamp: *[Signature]*  
 JUN 20 1989



# **Alberta** **Oil Sands Plant Statistics** **Monthly Supplement**

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**April 1989**





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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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STATISTICS DEPARTMENT AT (403) 297-2537



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STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 °C.
3. LIQUID VOLUME AT 15 °C.

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NOTES

---

- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.



|                 | SUNCOR<br>OIL SANDS |          |
|-----------------|---------------------|----------|
|                 | TONNES              | GRADE    |
| PRODUCTION      | 3 702 158           | 11.74    |
| PROCESSED       | 3 702 158           | 11.74    |
| EXTERNAL ENERGY |                     |          |
|                 | GAS                 | ELECTRIC |
|                 | 3 3                 |          |
|                 | 10 m                | GWh      |
| PURCHASED       | 16 273.2            | 21.2     |
| GENERATED       | 0.0                 | 31.8     |
|                 | 16 273.2            | 53.0     |
| PLANT USE       | 8 057.3             | 53.0     |
| FURTHER         |                     |          |
| PROCESSING      | 8 215.8             | 0.0      |
| FLARED          | 0.0                 | 0.0      |
| METERING        |                     |          |
| DIFFERENCE      | 0.1                 | 0.0      |
|                 | 16 273.2            | 53.0     |

|                 | 1989                  | APRIL    |
|-----------------|-----------------------|----------|
|                 | YEAR                  | MONTH    |
|                 | SYNCRUDE<br>OIL SANDS |          |
|                 | TONNES                | GRADE    |
| PRODUCTION      | 8 195 246             | 10.65    |
| PROCESSED       | 10 542 559            | 10.68    |
| EXTERNAL ENERGY |                       |          |
|                 | GAS                   | ELECTRIC |
|                 | 3 3                   |          |
|                 | 10 m                  | GWh      |
| PURCHASED       | 96 718.0              | 10.4     |
| GENERATED       | 0.0                   | 109.9    |
|                 | 96 718.0              | 120.3    |
| PLANT USE       | 40 168.0              | 120.3    |
| FURTHER         |                       |          |
| PROCESSING      | 56 550.0              | 0.0      |
| FLARED          | 0.0                   | 0.0      |
| METERING        |                       |          |
| DIFFERENCE      | 0.0                   | 0.0      |
|                 | 96 718.0              | 120.3    |



|                   |                        | 1989                       |           |            | APRIL     |            |
|-------------------|------------------------|----------------------------|-----------|------------|-----------|------------|
|                   |                        | YEAR                       |           | MONTH      |           |            |
| OPERATOR          | PRODUCTS               | INTERMEDIATES              |           |            |           |            |
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR    | BITUMEN   | DISTILLATE |
|                   | 3<br>m                 | 3<br>m                     | TONNES    | TONNES     | 3<br>m    | 3<br>m     |
| SUNCOR            |                        | Diluent<br>Naptha          |           |            |           |            |
| OPEN. INV.        | 77 079.3               | 49 954.0                   | 2 547 082 | 149 669    | 30 098.2  | 7 990.5    |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0         | 0          | 0.0       | 0.0        |
| PRODUCTION        | 250 561.3              | (1 132.7)                  | 85 821    | 10 522 (A) | 383 304.3 | 303 307.7  |
| CLOS. INV.        | 82 353.8               | 45 635.5                   | 2 566 328 | 147 126    | 46 029.1  | 34 415.3   |
|                   | 245 286.8              | 3 185.8                    | 66 575    | 13 065     | 367 373.4 | 276 882.9  |
| FURTHER           |                        |                            |           |            |           |            |
| PROCESSING        | 0.0                    | 0.0                        | 0         | 0          | 367 373.4 | 276 417.1  |
| FUEL              | 3 804.3                | 0.0                        | 66 575    | 0          | 0.0       | 327.0      |
| FLARED/WASTE      | 0.0                    | 3 185.8                    | 0         | 780        | 0.0       | 0.0        |
| MET. DIFF.        | 188.9                  | 0.0                        | 0         | (1)        | 0.0       | 138.8      |
| DELIVERIES        | 241 293.6              | 0.0                        | 0         | 12 286     | 0.0       | 0.0        |
|                   | 245 286.8              | 3 185.8                    | 66 575    | 13 065     | 367 373.4 | 276 882.9  |
| SYNCRUDE          |                        | Diluent<br>Naptha          |           |            |           |            |
| OPEN. INV.        | 20 994                 | 68 750                     | 7 723 135 | 1 597      | 234 063   | 101 028    |
| FR. SUNCOR        | 0                      | 0                          | 0         | 0          | 0         | 0          |
| PRODUCTION        | 758 914 (B)            | 5 429 (C)                  | 84 515    | 31 861     | 1 027 099 | 778 541    |
| CLOS. INV.        | 23 775                 | 69 110                     | 7 807 650 | 1 819      | 318 235   | 125 328    |
|                   | 756 133                | 5 069                      | 0         | 31 639     | 942 927   | 754 241    |
| FURTHER           |                        |                            |           |            |           |            |
| PROCESSING        | 0                      | 0                          | 0         | 0          | 941 825   | 747 262    |
| FUEL              | 3 774                  | 0                          | 0         | 0          | 0         | 0          |
| FLARED/WASTE      | 0                      | 5 069                      | 0         | 0          | 0         | 0          |
| MET. DIFF.        | (5)                    | 0                          | 0         | 0          | (1)       | 6 979      |
| DILUENT CARRYOVER |                        |                            |           |            |           |            |
| /RERUN            | 0                      | 0                          | 0         | 0          | 0         | 0          |
| TO SUNCOR         | 0                      | 0                          | 0         | 0          | 0         | 0          |
| DELIVERIES        | 752 364                | 0                          | 0         | 31 639     | 1 103     | 0          |
|                   | 756 133                | 5 069                      | 0         | 31 639     | 942 927   | 754 241    |





|                     |            |          | 1989                  | APRIL            |
|---------------------|------------|----------|-----------------------|------------------|
|                     |            |          | YEAR TO DATE          |                  |
| SUNCOR<br>OIL SANDS |            |          | SYNCRUDE<br>OIL SANDS |                  |
|                     | TONNES     | GRADE    | TONNES                | GRADE            |
| PRODUCTION          | 13 532 439 | 11.85    | PRODUCTION            | 35 226 798 10.49 |
| PROCESSED           | 13 532 439 | 11.85    | PROCESSED             | 34 118 110 10.57 |
| EXTERNAL ENERGY     |            |          | EXTERNAL ENERGY       |                  |
|                     | GAS        | ELECTRIC | GAS                   | ELECTRIC         |
|                     | 3 3        |          | 3 3                   |                  |
|                     | 10 m       | GWh      | 10 m                  | GWh              |
| PURCHASED           | 73 742.4   | 52.4     | PURCHASED             | 381 919.0 65.0   |
| GENERATED           | 0.0        | 129.5    | GENERATED             | 0.0 397.3        |
|                     | 73 742.4   | 181.9    |                       | 381 919.0 462.3  |
| PLANT USE           | 39 510.0   | 181.9    | PLANT USE             | 179 206.0 462.3  |
| FURTHER             |            |          | FURTHER               |                  |
| PROCESSING          | 34 232.3   | 0.0      | PROCESSING            | 202 713.0 0.0    |
| FLARED              | 0.0        | 0.0      | FLARED                | 0.0 0.0          |
| METERING            |            |          | METERING              |                  |
| DIFFERENCE          | 0.1        | 0.0      | DIFFERENCE            | 0.0 0.0          |
|                     | 73 742.4   | 181.9    |                       | 381 919.0 462.3  |



## 4

APRIL

YEAR TO DATE

| OPERATOR          | PRODUCTS               |       |         |                            |         |  | INTERMEDIATES |     |         |     |         |     |            |       |       |       |       |
|-------------------|------------------------|-------|---------|----------------------------|---------|--|---------------|-----|---------|-----|---------|-----|------------|-------|-------|-------|-------|
|                   | SYNTHETIC<br>CRUDE OIL |       |         | OTHER<br>HYDRO<br>-CARBONS |         |  | COKE          |     | SULPHUR |     | BITUMEN |     | DISTILLATE |       |       |       |       |
|                   | 3<br>m                 |       |         | 3<br>m                     |         |  | TONNES        |     | TONNES  |     | 3<br>m  |     | 3<br>m     |       |       |       |       |
| SUNCOR            |                        |       |         | Diluent<br>Naptha          |         |  |               |     |         |     |         |     |            |       |       |       |       |
| OPEN. INV.        | 84                     | 125.5 |         | 48                         | 123.3   |  | 2             | 497 | 965     | 159 | 200     | 32  | 386.7      | 4     | 386.4 |       |       |
| FR. SYNCRUDE      |                        | 0.0   |         |                            | 0.0     |  |               | 0   |         | 0   | (A)     |     | 0.0        |       | 0.0   |       |       |
| PRODUCTION        | 1                      | 031   | 173.8   | 18                         | 823.8   |  |               | 327 | 308     | 42  | 387     | 1   | 414        | 223.4 | 1     | 117   | 179.4 |
| CLOS. INV.        |                        | 82    | 353.8   | 45                         | 635.5   |  | 2             | 566 | 328     | 147 | 126     |     | 46         | 029.1 |       | 34    | 415.3 |
|                   | 1                      | 032   | 945.5   | 21                         | 311.6   |  |               | 258 | 945     | 54  | 461     | 1   | 400        | 581.0 | 1     | 087   | 150.5 |
| FURTHER           |                        |       |         |                            |         |  |               |     |         |     |         |     |            |       |       |       |       |
| PROCESSING        |                        | 0.0   |         | 0.0                        |         |  |               | 0   |         | 0   |         | 1   | 400        | 581.0 | 1     | 084   | 631.3 |
| FUEL              | 15                     | 895.5 |         | 0.0                        |         |  | 258           | 945 |         | 0   |         |     | 0.0        |       | 2     | 346.8 |       |
| FLARED/WASTE      |                        | 0.0   |         | 21                         | 311.7   |  |               | 0   |         | 2   | 779     |     | 0.0        |       |       | 0.0   |       |
| MET. DIFF.        |                        | 261.7 |         | (0.1)                      |         |  |               | 0   |         | 0   |         |     | 0.0        |       |       | 172.4 |       |
| DELIVERIES        | 1                      | 016   | 788.3   | 0.0                        |         |  |               | 0   |         | 51  | 682     |     | 0.0        |       |       | 0.0   |       |
|                   | 1                      | 032   | 945.5   | 21                         | 311.6   |  |               | 258 | 945     | 54  | 461     | 1   | 400        | 581.0 | 1     | 087   | 150.5 |
| SYNCRUDE          |                        |       |         |                            |         |  |               |     |         |     |         |     |            |       |       |       |       |
| OPEN. INV.        | 25                     | 125   |         | 66                         | 761     |  | 7             | 529 | 243     | 1   | 545     | 233 | 159        |       | 121   | 244   |       |
| FR. SUNCOR        |                        | 0     |         | 0                          |         |  |               | 0   |         | 0   |         |     | 0          |       | 0     |       |       |
| PRODUCTION        | 2                      | 630   | 360 (B) | 25                         | 782 (C) |  |               | 278 | 407     | 109 | 989     | 3   | 278        | 192   | 2     | 620   | 715   |
| CLOS. INV.        |                        | 23    | 775     | 69                         | 110     |  | 7             | 807 | 650     | 1   | 819     |     | 318        | 235   |       | 125   | 328   |
|                   | 2                      | 631   | 710     | 23                         | 433     |  |               | 0   | 109     | 715 |         | 3   | 193        | 116   | 2     | 616   | 631   |
| FURTHER           |                        |       |         |                            |         |  |               |     |         |     |         |     |            |       |       |       |       |
| PROCESSING        |                        | 0     |         | 0                          |         |  |               | 0   |         | 0   |         | 3   | 188        | 039   | 2     | 571   | 124   |
| FUEL              | 15                     | 079   |         | 0                          |         |  |               | 0   |         | 0   |         |     | 0          |       |       | 0     |       |
| FLARED/WASTE      |                        | 0     |         | 23                         | 434     |  |               | 0   |         | 0   |         |     | 0          |       |       | 0     |       |
| MET. DIFF.        |                        | 2     |         | (1)                        |         |  |               | 0   |         | 0   |         |     | 3          | 974   |       | 45    | 507   |
| DILUENT CARRYOVER |                        |       |         |                            |         |  |               |     |         |     |         |     |            |       |       |       |       |
| /RERUN            |                        | 0     |         | 0                          |         |  |               | 0   |         | 0   |         |     | 0          |       |       | 0     |       |
| TO SUNCOR         |                        | 0     |         | 0                          |         |  |               | 0   |         | 0   |         |     | 0          |       |       | 0     |       |
| DELIVERIES        | 2                      | 616   | 629     | 0                          |         |  |               | 0   | 109     | 715 |         | 1   | 103        |       |       | 0     |       |
|                   | 2                      | 631   | 710     | 23                         | 433     |  |               | 0   | 109     | 715 |         | 3   | 193        | 116   | 2     | 616   | 631   |



JUL 16 1989



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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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**May 1989**







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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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ENERGY RESOURCES CONSERVATION BOARD  
STATISTICAL SERIES

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MONTHLY SUPPLEMENT

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NOTE: INQUIRIES REGARDING THIS PUBLICATION  
SHOULD BE DIRECTED TO THE BOARD'S  
STATISTICS DEPARTMENT AT (403) 297-2537



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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 °C.
3. LIQUID VOLUME AT 15 °C.

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## NOTES

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- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.



BITUMEN SYNTHETIC PLANT OPERATIONS

1

|                 |           |       | SUNCOR<br>OIL SANDS |          |
|-----------------|-----------|-------|---------------------|----------|
|                 |           |       | TONNES              | GRADE    |
| PRODUCTION      | 3 937 393 | 11.87 |                     |          |
| PROCESSED       | 3 937 393 | 11.87 |                     |          |
| EXTERNAL ENERGY |           |       |                     |          |
|                 |           |       | GAS                 | ELECTRIC |
|                 |           |       | 3 3                 |          |
|                 |           |       | 10 m                | GWh      |
| PURCHASED       | 17 158.3  | 22.6  |                     |          |
| GENERATED       | 0.0       | 25.1  |                     |          |
|                 | 17 158.3  | 47.7  |                     |          |
| PLANT USE       | 8 460.9   | 47.7  |                     |          |
| FURTHER         |           |       |                     |          |
| PROCESSING      | 8 206.9   | 0.0   |                     |          |
| FLARED          | 0.0       | 0.0   |                     |          |
| METERING        |           |       |                     |          |
| DIFFERENCE      | 490.5     | 0.0   |                     |          |
|                 | 17 158.3  | 47.7  |                     |          |

|                 |            |       | 1989                  | MAY      |
|-----------------|------------|-------|-----------------------|----------|
|                 |            |       | YEAR                  | MONTH    |
|                 |            |       | SYNCRUDE<br>OIL SANDS |          |
|                 |            |       | TONNES                | GRADE    |
| PRODUCTION      | 9 166 208  | 10.40 |                       |          |
| PROCESSED       | 10 195 750 | 10.40 |                       |          |
| EXTERNAL ENERGY |            |       |                       |          |
|                 |            |       | GAS                   | ELECTRIC |
|                 |            |       | 3 3                   |          |
|                 |            |       | 10 m                  | GWh      |
| PURCHASED       | 96 335.0   | 18.6  |                       |          |
| GENERATED       | 0.0        | 107.7 |                       |          |
|                 | 96 335.0   | 126.3 |                       |          |
| PLANT USE       | 30 050.0   | 126.3 |                       |          |
| FURTHER         |            |       |                       |          |
| PROCESSING      | 66 285.0   | 0.0   |                       |          |
| FLARED          | 0.0        | 0.0   |                       |          |
| METERING        |            |       |                       |          |
| DIFFERENCE      | 0.0        | 0.0   |                       |          |
|                 | 96 335.0   | 126.3 |                       |          |





|                             |                        | 1989                       |           | MAY        |           |            |  |
|-----------------------------|------------------------|----------------------------|-----------|------------|-----------|------------|--|
|                             |                        | YEAR                       |           | MONTH      |           |            |  |
| OPERATOR                    | PRODUCTS               | INTERMEDIATES              |           |            |           |            |  |
|                             | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR    | BITUMEN   | DISTILLATE |  |
|                             | 3<br>m                 | 3<br>m                     | TONNES    | TONNES     | 3<br>m    | 3<br>m     |  |
| SUNCOR                      |                        | Diluent<br>Naphtha         |           |            |           |            |  |
| OPEN. INV.                  | 82 353.8               | 45 635.5                   | 2 566 328 | 147 126    | 46 029.1  | 34 415.3   |  |
| FR. SYNCRUDE                | 0.0                    | 0.0                        | 0         | 0          | 0.0       | 0.0        |  |
| PRODUCTION                  | 305 880.3              | 8 359.6                    | 100 039   | 11 125 (A) | 427 019.6 | 348 058.6  |  |
| CLOS. INV.                  | 82 802.6               | 49 190.4                   | 2 609 985 | 148 630    | 44 803.4  | 34 248.4   |  |
|                             | 305 431.5              | 4 804.7                    | 56 382    | 9 621      | 428 245.3 | 348 225.5  |  |
| FURTHER<br>PROCESSING       | 0.0                    |                            | 0         | 0          | 428 245.3 | 327 664.5  |  |
| FUEL                        | 3 781.9                | 0.0                        | 56 382    |            | 0.0       | 295.9      |  |
| FLARED/WASTE                | 0.0                    | 4 804.6                    | 0         | 818        | 0.0       | 1 080.7    |  |
| MET. DIFF.                  | 91.1                   | 0.1                        | 0         | 0          | 0.0       | 1 918.7    |  |
| DELIVERIES                  | 301 558.5              | 0.0                        | 0         | 8 803      | 0.0       | 17 265.7   |  |
|                             | 305 431.5              | 4 804.7                    | 56 382    | 9 621      | 428 245.3 | 348 225.5  |  |
| SYNCRUDE                    |                        | Diluent<br>Naphtha         |           |            |           |            |  |
| OPEN. INV.                  | 23 775                 | 69 110                     | 7 807 650 | 1 819      | 318 235   | 125 328    |  |
| FR. SUNCOR                  | 0                      | 0                          | 0         | 0          | 0         | 0          |  |
| PRODUCTION                  | 922 871 (B)            | 6 537 (C)                  | 92 443    | 38 405     | 960 672   | 873 853    |  |
| CLOS. INV.                  | 32 293                 | 70 796                     | 7 900 093 | 1 699      | 234 831   | 79 955     |  |
|                             | 914 353                | 4 851                      | 0         | 38 525     | 1 044 076 | 919 226    |  |
| FURTHER<br>PROCESSING       | 0                      | 0                          | 0         | 0          | 1 044 076 | 901 141    |  |
| FUEL                        | 4 422                  | 0                          | 0         | 0          | 0         | 0          |  |
| FLARED/WASTE                | 0                      | 4 851                      | 0         | 0          | 0         | 0          |  |
| MET. DIFF.                  | (15)                   | 0                          | 0         | 0          | 0         | 18 085     |  |
| DILUENT CARRYOVER<br>/RERUN | 0                      | 0                          | 0         | 0          | 0         | 0          |  |
| TO SUNCOR                   | 0                      | 0                          | 0         | 0          | 0         | 0          |  |
| DELIVERIES                  | 909 946                | 0                          | 0         | 38 525     | 0         | 0          |  |
|                             | 914 353                | 4 851                      | 0         | 38 525     | 1 044 076 | 919 226    |  |



|  |                                      | 1989                       |  | MAY                                  |                            |
|--|--------------------------------------|----------------------------|--|--------------------------------------|----------------------------|
|  |                                      | YEAR TO DATE               |  |                                      |                            |
|  |                                      | SUNCOR<br>OIL SANDS        |  | SYNCRUDE<br>OIL SANDS                |                            |
|  |                                      | TONNES                     | GRADE  | TONNES                               | GRADE                      |
| PRODUCTION   | 17 469 832                           | 11.85                      | PRODUCTION   | 44 393 006                           | 10.47                      |
| PROCESSED  | 17 469 832                           | 11.85                      | PROCESSED  | 44 313 860                           | 10.53                      |
|  |                                      | EXTERNAL ENERGY            |  | EXTERNAL ENERGY                      |                            |
|  |                                      | GAS                        | ELECTRIC   | GAS                                  | ELECTRIC                   |
|  |                                      | 3 3                        |  | 3 3                                  |                            |
|  |                                      | 10 m                       | GWh  | 10 m                                 | GWh                        |
| PURCHASED<br>GENERATED   | 90 900.7<br>0.0                      | 75.0<br>154.6              | PURCHASED<br>GENERATED   | 478 254.0<br>0.0                     | 83.6<br>505.0              |
|  |                                      | 90 900.7                   | 229.6  |                                      |                            |
| PLANT USE<br>FURTHER<br>PROCESSING<br>FLARED<br>METERING<br>DIFFERENCE | 47 970.9<br>42 439.2<br>0.0<br>490.6 | 229.6<br>0.0<br>0.0<br>0.0 | PLANT USE<br>FURTHER<br>PROCESSING<br>FLARED<br>METERING<br>DIFFERENCE | 209 256.0<br>268 998.0<br>0.0<br>0.0 | 588.6<br>0.0<br>0.0<br>0.0 |
|  |                                      | 90 900.7                   | 229.6  |                                      |                            |



1989

MAY

YEAR TO DATE

| OPERATOR          | PRODUCTS               |                   | INTERMEDIATES              |       |         |       |         |       |         |       |            |          |       |
|-------------------|------------------------|-------------------|----------------------------|-------|---------|-------|---------|-------|---------|-------|------------|----------|-------|
|                   |                        |                   |                            |       |         |       |         |       |         |       |            |          |       |
|                   | SYNTHETIC<br>CRUDE OIL |                   | OTHER<br>HYDRO<br>-CARBONS |       | COKE    |       | SULPHUR |       | BITUMEN |       | DISTILLATE |          |       |
|                   | 3<br>m                 |                   | 3<br>m                     |       | TONNES  |       | TONNES  |       | 3<br>m  |       | 3<br>m     |          |       |
| SUNCOR            |                        | Diluent<br>Naptha |                            |       |         |       |         |       |         |       |            |          |       |
| OPEN. INV.        | 84                     | 125.5             | 48                         | 123.3 | 2 497   | 965   | 159     | 200   |         | 32    | 386.7      | 4        | 386.4 |
| FR. SYNCRUDE      |                        | 0.0               |                            | 0.0   |         | 0     |         | 0 (A) |         |       | 0.0        |          | 0.0   |
| PRODUCTION        | 1 337                  | 054.1             | 27                         | 183.4 | 427     | 347   | 53      | 512   | 1 841   | 243.0 | 1 465      | 238.0    |       |
| CLOS. INV.        | 82                     | 802.6             | 49                         | 190.4 | 2 609   | 985   | 148     | 630   | 44      | 803.4 | 34         | 248.4    |       |
|                   |                        | 1 338             | 377.0                      | 26    | 116.3   | 315   | 327     | 64    | 082     | 1 828 | 826.3      | 1 435    | 376.0 |
| =====             |                        |                   |                            |       |         |       |         |       |         |       |            |          |       |
| FURTHER           |                        |                   |                            |       |         |       |         |       |         |       |            |          |       |
| PROCESSING        |                        | 0.0               |                            | 0.0   |         | 0     |         | 0     | 1 828   | 826.3 | 1 412      | 295.8    |       |
| FUEL              | 19                     | 677.4             |                            | 0.0   | 315     | 327   |         | 0     |         | 0.0   |            | 2 642.7  |       |
| FLARED/WASTE      |                        | 0.0               | 26                         | 116.3 |         | 0     | 3       | 597   |         | 0.0   |            | 1 080.7  |       |
| MET. DIFF.        |                        | 352.8             |                            | 0.0   |         | 0     |         | 0     |         | 0.0   |            | 2 091.1  |       |
| DELIVERIES        | 1 318                  | 346.8             |                            | 0.0   |         | 0     | 60      | 485   |         | 0.0   |            | 17 265.7 |       |
|                   |                        | 1 338             | 377.0                      | 26    | 116.3   | 315   | 327     | 64    | 082     | 1 828 | 826.3      | 1 435    | 376.0 |
| =====             |                        |                   |                            |       |         |       |         |       |         |       |            |          |       |
| SYNCRUDE          |                        |                   |                            |       |         |       |         |       |         |       |            |          |       |
| OPEN. INV.        |                        | 25                | 125                        | 66    | 761     | 7 529 | 243     | 1 545 |         | 233   | 159        | 121      | 244   |
| FR. SUNCOR        |                        |                   | 0                          |       | 0       |       | 0       | 0     |         |       | 0          |          | 0     |
| PRODUCTION        |                        | 3 553             | 231 (B)                    | 32    | 319 (C) | 370   | 850     | 148   | 394     | 4 238 | 864        | 3 494    | 568   |
| CLOS. INV.        |                        | 32                | 293                        | 70    | 796     | 7 900 | 093     | 1 699 |         | 234   | 831        | 79       | 955   |
|                   |                        | 3 546             | 063                        | 28    | 284     |       | 0       | 148   | 240     | 4 237 | 192        | 3 535    | 857   |
| =====             |                        |                   |                            |       |         |       |         |       |         |       |            |          |       |
| FURTHER           |                        |                   |                            |       |         |       |         |       |         |       |            |          |       |
| PROCESSING        |                        | 0                 |                            | 0     |         | 0     |         | 0     | 4 232   | 115   | 3 472      | 265      |       |
| FUEL              | 19                     | 501               |                            | 0     |         | 0     |         | 0     |         | 0     |            | 0        |       |
| FLARED/WASTE      |                        | 0                 | 28                         | 285   |         | 0     |         | 0     |         | 0     |            | 0        |       |
| MET. DIFF.        | (13)                   |                   | (1)                        |       |         | 0     |         | 0     | 3 974   |       | 63         | 592      |       |
| DILUENT CARRYOVER |                        |                   |                            |       |         |       |         |       |         |       |            |          |       |
| /RERUN            |                        | 0                 |                            | 0     |         | 0     |         | 0     |         | 0     |            | 0        |       |
| TO SUNCOR         |                        | 0                 |                            | 0     |         | 0     |         | 0     |         | 0     |            | 0        |       |
| DELIVERIES        | 3 526                  | 575               |                            | 0     |         | 0     | 148     | 240   | 1 103   |       |            | 0        |       |
|                   |                        | 3 546             | 063                        | 28    | 284     |       | 0       | 148   | 240     | 4 237 | 192        | 3 535    | 857   |
| =====             |                        |                   |                            |       |         |       |         |       |         |       |            |          |       |





SEP 25 1989



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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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**June 1989**





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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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ENERGY RESOURCES CONSERVATION BOARD  
STATISTICAL SERIES

ALBERTA OIL SANDS PLANT STATISTICS  
MONTHLY SUPPLEMENT

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NOTE: INQUIRIES REGARDING THIS PUBLICATION  
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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 °C.
3. LIQUID VOLUME AT 15 °C.

---

## NOTES

---

- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.



BITUMEN SYNTHETIC PLANT OPERATIONS

1

|                        | SUNCOR<br>OIL SANDS |          |
|------------------------|---------------------|----------|
|                        | TONNES              | GRADE    |
| PRODUCTION             | 3 136 624           | 13.04    |
| PROCESSED              | 3 136 624           | 13.04    |
| EXTERNAL ENERGY        |                     |          |
|                        | GAS                 | ELECTRIC |
|                        | 3 3                 |          |
|                        | 10 m                | GWh      |
| PURCHASED              | 20 363.2            | 17.9     |
| GENERATED              | 0.0                 | 25.9     |
|                        | 20 363.2            | 43.8     |
| PLANT USE              | 9 849.1             | 43.8     |
| FURTHER<br>PROCESSING  | 8 853.0             | 0.0      |
| FLARED                 | 0.0                 | 0.0      |
| METERING<br>DIFFERENCE | 1 661.1             | 0.0      |
|                        | 20 363.2            | 43.8     |

|                        | 1989<br>YEAR          | JUNE<br>MONTH |
|------------------------|-----------------------|---------------|
|                        | SYNCRUDE<br>OIL SANDS |               |
|                        | TONNES                | GRADE         |
| PRODUCTION             | 10 130 122            | 10.75         |
| PROCESSED              | 9 655 234             | 10.65         |
| EXTERNAL ENERGY        |                       |               |
|                        | GAS                   | ELECTRIC      |
|                        | 3 3                   |               |
|                        | 10 m                  | GWh           |
| PURCHASED              | 87 818.0              | 25.8          |
| GENERATED              | 0.0                   | 94.2          |
|                        | 87 818.0              | 120.0         |
| PLANT USE              | 29 221.0              | 120.0         |
| FURTHER<br>PROCESSING  | 58 597.0              | 0.0           |
| FLARED                 | 0.0                   | 0.0           |
| METERING<br>DIFFERENCE | 0.0                   | 0.0           |
|                        | 87 818.0              | 120.0         |



## BITUMEN SYNTHETIC PLANT OPERATIONS

2

| OPERATOR          | PRODUCTS               | 1989                       |           |            |           |            | JUNE  |
|-------------------|------------------------|----------------------------|-----------|------------|-----------|------------|-------|
|                   |                        | YEAR                       |           |            |           |            | MONTH |
|                   |                        | INTERMEDIATES              |           |            |           |            |       |
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR    | BITUMEN   | DISTILLATE |       |
|                   | 3<br>m                 | 3<br>m                     | TONNES    | TONNES     | 3<br>m    | 3<br>m     |       |
| SUNCOR            |                        | Diluent<br>Naphtha         |           |            |           |            |       |
| OPEN. INV.        | 82 802.6               | 49 190.4                   | 2 609 985 | 148 630    | 44 803.4  | 34 248.4   |       |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0         | 0          | 0.0       | 0.0        |       |
| PRODUCTION        | 298 411.4              | (1 550.0)                  | 87 845    | 11 031 (A) | 373 121.0 | 319 558.1  |       |
| CLOS. INV.        | 95 547.2               | 41 761.4                   | 2 646 997 | 148 135    | 41 880.7  | 26 912.8   |       |
|                   | 285 666.8              | 5 879.0                    | 50 833    | 11 526     | 376 043.7 | 326 893.7  |       |
| FURTHER           |                        |                            |           |            |           |            |       |
| PROCESSING        | 0.0                    | 0.0                        | 0         | 0          | 376 043.7 | 323 104.2  |       |
| FUEL              | 3 873.7                | 0.0                        | 50 833    | 0          | 0.0       | 0.0        |       |
| FLARED/WASTE      | 0.0                    | 5 879.0                    | 0         | 630        | 0.0       | 3 735.8    |       |
| MET. DIFF.        | (13.8)                 | 0.0                        | 0         | 0          | 0.0       | 53.7       |       |
| DELIVERIES        | 281 806.9              | 0.0                        | 0         | 10 896     | 0.0       | 0.0        |       |
|                   | 285 666.8              | 5 879.0                    | 50 833    | 11 526     | 376 043.7 | 326 893.7  |       |
| SYNCRUDE          |                        | Diluent<br>Naphtha         |           |            |           |            |       |
| OPEN. INV.        | 32 293                 | 70 796                     | 7 900 093 | 1 699      | 234 831   | 79 955     |       |
| FR. SUNCOR        | 0                      | 0                          | 0         | 0          | 0         | 0          |       |
| PRODUCTION        | 839 206 (B)            | 5 532 (C)                  | 84 756    | 35 678     | 941 748   | 838 448    |       |
| CLOS. INV.        | 29 607                 | 69 873                     | 7 984 849 | 2 264      | 192 763   | 84 389     |       |
|                   | 841 892                | 6 455                      | 0         | 35 113     | 983 816   | 834 014    |       |
| FURTHER           |                        |                            |           |            |           |            |       |
| PROCESSING        | 0                      | 0                          | 0         | 0          | 983 816   | 824 456    |       |
| FUEL              | 4 320                  | 0                          | 0         | 0          | 0         | 0          |       |
| FLARED/WASTE      | 0                      | 6 455                      | 0         | 0          | 0         | 0          |       |
| MET. DIFF.        | 5                      | 0                          | 0         | 0          | 0         | 9 558      |       |
| DILUENT CARRYOVER |                        |                            |           |            |           |            |       |
| /RERUN            | 0                      | 0                          | 0         | 0          | 0         | 0          |       |
| TO SUNCOR         | 0                      | 0                          | 0         | 0          | 0         | 0          |       |
| DELIVERIES        | 837 567                | 0                          | 0         | 35 113     | 0         | 0          |       |
|                   | 841 892                | 6 455                      | 0         | 35 113     | 983 816   | 834 014    |       |



|                     |            |          | 1989                  | JUNE       |          |
|---------------------|------------|----------|-----------------------|------------|----------|
|                     |            |          | YEAR TO DATE          |            |          |
| SUNCOR<br>OIL SANDS |            |          | SYNCRUDE<br>OIL SANDS |            |          |
|                     | TONNES     | GRADE    |                       | TONNES     | GRADE    |
| PRODUCTION          | 20 606 456 | 12.03    | PRODUCTION            | 54 523 128 | 10.52    |
| PROCESSED           | 20 606 456 | 12.03    | PROCESSED             | 53 969 094 | 10.55    |
| EXTERNAL ENERGY     |            |          | EXTERNAL ENERGY       |            |          |
|                     | GAS        | ELECTRIC |                       | GAS        | ELECTRIC |
|                     | 3 3        |          |                       | 3 3        |          |
|                     | 10 m       | GWh      |                       | 10 m       | GWh      |
| PURCHASED           | 111 263.9  | 92.9     | PURCHASED             | 566 072.0  | 109.4    |
| GENERATED           | 0.0        | 180.5    | GENERATED             | 0.0        | 599.2    |
|                     | 111 263.9  | 273.4    |                       | 566 072.0  | 708.6    |
| PLANT USE           | 57 820.0   | 273.4    | PLANT USE             | 238 477.0  | 708.6    |
| FURTHER             |            |          | FURTHER               |            |          |
| PROCESSING          | 51 292.2   | 0.0      | PROCESSING            | 327 595.0  | 0.0      |
| FLARED              | 0.0        | 0.0      | FLARED                | 0.0        | 0.0      |
| METERING            |            |          | METERING              |            |          |
| DIFFERENCE          | 2 151.7    | 0.0      | DIFFERENCE            | 0.0        | 0.0      |
|                     | 111 263.9  | 273.4    |                       | 566 072.0  | 708.6    |





BITUMEN SYNTHETIC PLANT OPERATIONS

4

1989

JUNE

YEAR TO DATE

| OPERATOR          | PRODUCTS               |                            | INTERMEDIATES |         |             |             |  |  |
|-------------------|------------------------|----------------------------|---------------|---------|-------------|-------------|--|--|
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE          | SULPHUR | BITUMEN     | DISTILLATE  |  |  |
|                   | 3<br>m                 | 3<br>m                     | TONNES        | TONNES  | 3<br>m      | 3<br>m      |  |  |
| SUNCOR            |                        | Diluent<br>Naptha          |               |         |             |             |  |  |
| OPEN. INV.        | 84 125.5               | 48 123.3                   | 2 497 965     | 159 200 | 32 386.7    | 4 386.4     |  |  |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0             | 0 (A)   | 0.0         | 0.0         |  |  |
| PRODUCTION        | 1 635 465.5            | 25 633.4                   | 515 192       | 64 543  | 2 214 364.0 | 1 784 796.1 |  |  |
| CLOS. INV.        | 95 547.2               | 41 761.4                   | 2 646 997     | 148 135 | 41 880.7    | 26 912.8    |  |  |
|                   | 1 624 043.8            | 31 995.3                   | 366 160       | 75 608  | 2 204 870.0 | 1 762 269.7 |  |  |
| FURTHER           |                        |                            |               |         |             |             |  |  |
| PROCESSING        | 0.0                    | 0.0                        | 0             | 0       | 2 204 870.0 | 1 735 400.0 |  |  |
| FUEL              | 23 551.1               | 0.0                        | 366 160       | 0       | 0.0         | 2 642.7     |  |  |
| FLARED/WASTE      | 0.0                    | 31 995.3                   | 0             | 4 227   | 0.0         | 4 816.5     |  |  |
| MET. DIFF.        | 339.0                  | 0.0                        | 0             | 0       | 0.0         | 2 144.8     |  |  |
| DELIVERIES        | 1 600 153.7            | 0.0                        | 0             | 71 381  | 0.0         | 17 265.7    |  |  |
|                   | 1 624 043.8            | 31 995.3                   | 366 160       | 75 608  | 2 204 870.0 | 1 762 269.7 |  |  |
| SYNCRUDE          |                        |                            |               |         |             |             |  |  |
| OPEN. INV.        | 25 125                 | 66 761                     | 7 529 243     | 1 545   | 233 159     | 121 244     |  |  |
| FR. SUNCOR        | 0                      | 0                          | 0             | 0       | 0           | 0           |  |  |
| PRODUCTION        | 4 392 437 (B)          | 37 851 (C)                 | 455 606       | 184 072 | 5 180 612   | 4 333 016   |  |  |
| CLOS. INV.        | 29 607                 | 69 873                     | 7 984 849     | 2 264   | 192 763     | 84 389      |  |  |
|                   | 4 387 955              | 34 739                     | 0             | 183 353 | 5 221 008   | 4 369 871   |  |  |
| FURTHER           |                        |                            |               |         |             |             |  |  |
| PROCESSING        | 0                      | 0                          | 0             | 0       | 5 215 931   | 4 296 721   |  |  |
| FUEL              | 23 821                 | 0                          | 0             | 0       | 0           | 0           |  |  |
| FLARED/WASTE      | 0                      | 34 740                     | 0             | 0       | 0           | 0           |  |  |
| MET. DIFF.        | (8)                    | (1)                        | 0             | 0       | 3 974       | 73 150      |  |  |
| DILUENT CARRYOVER |                        |                            |               |         |             |             |  |  |
| /RERUN            | 0                      | 0                          | 0             | 0       | 0           | 0           |  |  |
| TO SUNCOR         | 0                      | 0                          | 0             | 0       | 0           | 0           |  |  |
| DELIVERIES        | 4 364 142              | 0                          | 0             | 183 353 | 1 103       | 0           |  |  |
|                   | 4 387 955              | 34 739                     | 0             | 183 353 | 5 221 008   | 4 369 871   |  |  |





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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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**July 1989**





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**Alberta**  
**Oil Sands Plant Statistics**  
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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 °C.
3. LIQUID VOLUME AT 15 °C.

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## NOTES

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- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.



|                 | SUNCOR<br>OIL SANDS |          |
|-----------------|---------------------|----------|
|                 | TONNES              | GRADE    |
| PRODUCTION      | 3 362 584           | 11.56    |
| PROCESSED       | 3 362 584           | 11.56    |
| EXTERNAL ENERGY |                     |          |
|                 | GAS                 | ELECTRIC |
|                 | 3 3                 |          |
|                 | 10 m                | GWh      |
| PURCHASED       | 20 533.4            | 17.7     |
| GENERATED       | 0.0                 | 27.8     |
|                 | 20 533.4            | 45.5     |
| PLANT USE       | 10 386.7            | 45.5     |
| FURTHER         |                     |          |
| PROCESSING      | 10 146.7            | 0.0      |
| FLARED          | 0.0                 | 0.0      |
| METERING        |                     |          |
| DIFFERENCE      | 0.0                 | 0.0      |
|                 | 20 533.4            | 45.5     |

|                 | 1989                  | JULY     |
|-----------------|-----------------------|----------|
|                 | YEAR                  | MONTH    |
|                 | SYNCRUDE<br>OIL SANDS |          |
|                 | TONNES                | GRADE    |
| PRODUCTION      | 7 272 394             | 10.18    |
| PROCESSED       | 6 993 651             | 10.45    |
| EXTERNAL ENERGY |                       |          |
|                 | GAS                   | ELECTRIC |
|                 | 3 3                   |          |
|                 | 10 m                  | GWh      |
| PURCHASED       | 81 313.0              | 22.3     |
| GENERATED       | 0.0                   | 79.6     |
|                 | 81 313.0              | 101.9    |
| PLANT USE       | 37 054.0              | 101.9    |
| FURTHER         |                       |          |
| PROCESSING      | 44 259.0              | 0.0      |
| FLARED          | 0.0                   | 0.0      |
| METERING        |                       |          |
| DIFFERENCE      | 0.0                   | 0.0      |
|                 | 81 313.0              | 101.9    |



| OPERATOR          | PRODUCTS               |                            | 1989          |              |           |            | JULY  |
|-------------------|------------------------|----------------------------|---------------|--------------|-----------|------------|-------|
|                   |                        |                            | YEAR          |              |           |            | MONTH |
|                   |                        |                            | INTERMEDIATES |              |           |            |       |
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE          | SULPHUR      | BITUMEN   | DISTILLATE |       |
|                   | 3<br>m                 | 3<br>m                     | TONNES        | TONNES       | 3<br>m    | 3<br>m     |       |
| SUNCOR            |                        | Diluent<br>Naphtha         |               |              |           |            |       |
| OPEN. INV.        | 95 547.2               | 41 761.4                   | 2 646 997     | 148 135      | 41 880.7  | 26 912.8   |       |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0             | 0            | 0.0       | 0.0        |       |
| PRODUCTION        | 310 078.1 (B)          | 6 878.2                    | 89 125        | 11 878 (A)   | 360 666.4 | 317 201.6  |       |
| CLOS. INV.        | 82 379.4               | 43 750.9                   | 2 626 459     | 160 157      | 23 621.0  | 3 851.7    |       |
|                   | 323 245.9              | 4 888.7                    | 109 663       | (144)        | 378 926.1 | 340 262.7  |       |
| FURTHER           |                        |                            |               |              |           |            |       |
| PROCESSING        | 0.0                    | 0.0                        | 0             | 0            | 378 926.1 | 336 445.5  |       |
| FUEL              | 2 847.3                | 0.0                        | 51 558        | 0            | 0.0       | 1 196.9    |       |
| FLARED/WASTE      | 0.0                    | 4 888.7                    | 0             | 609          | 0.0       | 2 620.6    |       |
| MET. DIFF.        | 195.1                  | 0.0                        | 58 105        | (14 639) (1) | 0.0       | (0.3)      |       |
| DELIVERIES        | 320 203.5              | 0.0                        | 0             | 13 886       | 0.0       | 0.0        |       |
|                   | 323 245.9              | 4 888.7                    | 109 663       | (144)        | 378 926.1 | 340 262.7  |       |
| SYNCRUDE          |                        | Diluent<br>Naphtha         |               |              |           |            |       |
| OPEN. INV.        | 29 607                 | 69 873                     | 7 984 849     | 2 264        | 192 764   | 84 389     |       |
| FR. SUNCOR        | 0                      | 0                          | 0             | 0            | 0         | 0          |       |
| PRODUCTION        | 551 357 (B)            | 7 790 (C)                  | 55 836        | 24 248       | 661 164   | 554 702    |       |
| CLOS. INV.        | 14 128                 | 73 190                     | 8 040 685     | 1 606        | 195 837   | 86 661     |       |
|                   | 566 836                | 4 473                      | 0             | 24 906       | 658 091   | 552 430    |       |
| FURTHER           |                        |                            |               |              |           |            |       |
| PROCESSING        | 0                      | 0                          | 0             | 0            | 658 091   | 535 517    |       |
| FUEL              | 3 767                  | 0                          | 0             | 0            | 0         | 0          |       |
| FLARED/WASTE      | 0                      | 4 473                      | 0             | 0            | 0         | 0          |       |
| MET. DIFF.        | 28                     | 0                          | 0             | 0            | 0         | 16 913     |       |
| DILUENT CARRYOVER |                        |                            |               |              |           |            |       |
| /RERUN            | 0                      | 0                          | 0             | 0            | 0         | 0          |       |
| TO SUNCOR         | 0                      | 0                          | 0             | 0            | 0         | 0          |       |
| DELIVERIES        | 563 041                | 0                          | 0             | 24 906       | 0         | 0          |       |
|                   | 566 836                | 4 473                      | 0             | 24 906       | 658 091   | 552 430    |       |

NOTE: (1) INCLUDES INVENTORY ADJUSTMENT FROM AERIAL SURVEY.



|                 | SUNCOR<br>OIL SANDS |          |
|-----------------|---------------------|----------|
|                 | TONNES              | GRADE    |
| PRODUCTION      | 23 969 040          | 11.97    |
| PROCESSED       | 23 969 040          | 11.97    |
| EXTERNAL ENERGY |                     |          |
|                 | GAS                 | ELECTRIC |
|                 | 3 3                 |          |
|                 | 10 m                | GWh      |
| PURCHASED       | 131 797.3           | 110.6    |
| GENERATED       | 0.0                 | 208.3    |
|                 | 131 797.3           | 318.9    |
| PLANT USE       | 68 206.7            | 318.9    |
| FURTHER         |                     |          |
| PROCESSING      | 61 438.9            | 0.0      |
| FLARED          | 0.0                 | 0.0      |
| METERING        |                     |          |
| DIFFERENCE      | 2 151.7             | 0.0      |
|                 | 131 797.3           | 318.9    |

|                 | 1989 JULY             |          |
|-----------------|-----------------------|----------|
|                 | YEAR TO DATE          |          |
|                 | SYNCRUDE<br>OIL SANDS |          |
|                 | TONNES                | GRADE    |
| PRODUCTION      | 61 795 522            | 10.48    |
| PROCESSED       | 60 962 745            | 10.54    |
| EXTERNAL ENERGY |                       |          |
|                 | GAS                   | ELECTRIC |
|                 | 3 3                   |          |
|                 | 10 m                  | GWh      |
| PURCHASED       | 647 385.0             | 131.7    |
| GENERATED       | 0.0                   | 678.8    |
|                 | 647 385.0             | 810.5    |
| PLANT USE       | 275 531.0             | 810.5    |
| FURTHER         |                       |          |
| PROCESSING      | 371 854.0             | 0.0      |
| FLARED          | 0.0                   | 0.0      |
| METERING        |                       |          |
| DIFFERENCE      | 0.0                   | 0.0      |
|                 | 647 385.0             | 810.5    |





## 4

JULY

| OPERATOR          | PRODUCTS               |           |                            |         | INTERMEDIATES |          |             |             |
|-------------------|------------------------|-----------|----------------------------|---------|---------------|----------|-------------|-------------|
|                   | SYNTHETIC<br>CRUDE OIL |           | OTHER<br>HYDRO<br>-CARBONS |         | COKE          | SULPHUR  | BITUMEN     | DISTILLATE  |
|                   | 3<br>m                 |           | 3<br>m                     |         | TONNES        | TONNES   | 3<br>m      | 3<br>m      |
| SUNCOR            |                        |           | Diluent<br>Naphtha         |         |               |          |             |             |
| OPEN. INV.        | 84                     | 125.5     | 48                         | 123.3   | 2 497 965     | 159 200  | 32 386.7    | 4 386.4     |
| FR. SYNCRUDE      |                        | 0.0       |                            | 0.0     | 0             | 0 (A)    | 0.0         | 0.0         |
| PRODUCTION        | 1 945                  | 543.6 (B) | 32                         | 511.6   | 604 317       | 76 421   | 2 575 030.4 | 2 101 997.7 |
| CLOS. INV.        | 82                     | 379.4     | 43                         | 750.9   | 2 626 459     | 160 157  | 23 621.0    | 3 851.7     |
|                   | 1 947                  | 289.7     | 36                         | 884.0   | 475 823       | 75 464   | 2 583 796.1 | 2 102 532.4 |
| FURTHER           |                        |           |                            |         |               |          |             |             |
| PROCESSING        |                        | 0.0       |                            | 0.0     | 0             | 0        | 2 583 796.1 | 2 071 845.5 |
| FUEL              | 26                     | 398.4     |                            | 0.0     | 417 718       | 0        | 0.0         | 3 839.6     |
| FLARED/WASTE      |                        | 0.0       | 36                         | 884.0   | 0             | 4 836    | 0.0         | 7 437.1     |
| MET. DIFF.        |                        | 534.1     |                            | 0.0     | 58 105        | (14 639) | 0.0         | 2 144.5     |
| DELIVERIES        | 1 920                  | 357.2     |                            | 0.0     | 0             | 85 267   | 0.0         | 17 265.7    |
|                   | 1 947                  | 289.7     | 36                         | 884.0   | 475 823       | 75 464   | 2 583 796.1 | 2 102 532.4 |
| SYNCRUDE          |                        |           | Diluent<br>Naphtha         |         |               |          |             |             |
| OPEN. INV.        | 25                     | 125       | 66                         | 761     | 7 529 243     | 1 545    | 233 159     | 121 244     |
| FR. SUNCOR        |                        | 0         |                            | 0       | 0             | 0        | 0           | 0           |
| PRODUCTION        | 4 943                  | 794 (B)   | 45                         | 641 (C) | 511 442       | 208 320  | 5 841 776   | 4 887 718   |
| CLOS. INV.        | 14                     | 128       | 73                         | 190     | 8 040 685     | 1 606    | 195 837     | 86 661      |
|                   | 4 954                  | 791       | 39                         | 212     | 0             | 208 259  | 5 879 098   | 4 922 301   |
| FURTHER           |                        |           |                            |         |               |          |             |             |
| PROCESSING        |                        | 0         |                            | 0       | 0             | 0        | 5 874 022   | 4 832 238   |
| FUEL              | 27                     | 588       |                            | 0       | 0             | 0        | 0           | 0           |
| FLARED/WASTE      |                        | 0         | 39                         | 213     | 0             | 0        | 0           | 0           |
| MET. DIFF.        |                        | 20        |                            | (1)     | 0             | 0        | 3 973       | 90 063      |
| DILUENT CARRYOVER |                        |           |                            |         |               |          |             |             |
| /RERUN            |                        | 0         |                            | 0       | 0             | 0        | 0           | 0           |
| TO SUNCOR         |                        | 0         |                            | 0       | 0             | 0        | 0           | 0           |
| DELIVERIES        | 4 927                  | 183       |                            | 0       | 0             | 208 259  | 1 103       | 0           |
|                   | 4 954                  | 791       | 39                         | 212     | 0             | 208 259  | 5 879 098   | 4 922 301   |





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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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**August 1989**





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**Alberta**  
**Oil Sands Plant Statistics**  
**Monthly Supplement**

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STATISTICAL SERIES

ALBERTA OIL SANDS PLANT STATISTICS  
MONTHLY SUPPLEMENT

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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 °C.
3. LIQUID VOLUME AT 15 °C.

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## NOTES

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- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.



|                 | SUNCOR<br>OIL SANDS |          |
|-----------------|---------------------|----------|
|                 | TONNES              | GRADE    |
| PRODUCTION      | 3 323 272           | 12.29    |
| PROCESSED       | 3 323 272           | 12.29    |
| EXTERNAL ENERGY |                     |          |
|                 | GAS                 | ELECTRIC |
|                 | 3 3                 |          |
|                 | 10 m                | GWh      |
| PURCHASED       | 16 287.5            | 18.4     |
| GENERATED       | 0.0                 | 28.4     |
|                 | 16 287.5            | 46.8     |
| PLANT USE       | 7 982.1             | 46.8     |
| FURTHER         |                     |          |
| PROCESSING      | 8 305.4             | 0.0      |
| FLARED          | 0.0                 | 0.0      |
| METERING        |                     |          |
| DIFFERENCE      | 0.0                 | 0.0      |
|                 | 16 287.5            | 46.8     |

|                 | 1989                  | AUGUST   |
|-----------------|-----------------------|----------|
|                 | YEAR                  | MONTH    |
|                 | SYNCRUDE<br>OIL SANDS |          |
|                 | TONNES                | GRADE    |
| PRODUCTION      | 9 993 879             | 10.27    |
| PROCESSED       | 7 605 992             | 10.26    |
| EXTERNAL ENERGY |                       |          |
|                 | GAS                   | ELECTRIC |
|                 | 3 3                   |          |
|                 | 10 m                  | GWh      |
| PURCHASED       | 89 663.0              | 13.3     |
| GENERATED       | 0.0                   | 97.9     |
|                 | 89 663.0              | 111.2    |
| PLANT USE       | 42 317.0              | 111.2    |
| FURTHER         |                       |          |
| PROCESSING      | 47 346.0              | 0.0      |
| FLARED          | 0.0                   | 0.0      |
| METERING        |                       |          |
| DIFFERENCE      | 0.0                   | 0.0      |
|                 | 89 663.0              | 111.2    |



|                         |                        | 1989                       | AUGUST    |            |           |            |
|-------------------------|------------------------|----------------------------|-----------|------------|-----------|------------|
|                         |                        | YEAR                       | MONTH     |            |           |            |
| OPERATOR                | PRODUCTS               | INTERMEDIATES              |           |            |           |            |
|                         | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR    | BITUMEN   | DISTILLATE |
|                         | 3<br>m                 | 3<br>m                     | TONNES    | TONNES     | 3<br>m    | 3<br>m     |
| SUNCOR                  |                        | Diluent<br>Naptha          |           |            |           |            |
| OPEN. INV.              | 82 379.4               | 43 750.9                   | 2 626 459 | 160 157    | 23 621.0  | 3 851.7    |
| FR. SYNCRUDE            | 0.0                    | 0.0                        | 0         | 0          | 0.0       | 0.0        |
| PRODUCTION              | 288 485.2              | (791.2)                    | 91 151    | 11 407 (A) | 397 157.7 | 330 895.9  |
| CLOS. INV.              | 80 863.9               | 39 881.2                   | 2 667 828 | 156 805    | 30 580.3  | 6 878.1    |
|                         | 290 000.7              | 3 078.5                    | 49 782    | 14 759     | 390 198.4 | 327 869.5  |
| FURTHER                 |                        |                            |           |            |           |            |
| PROCESSING              | 0.0                    | 0.0                        | 0         | 0          | 390 198.4 | 323 787.4  |
| FUEL                    | 3 112.1                | 0.0                        | 49 783    | 0          | 0.0       | 3 933.3    |
| FLARED/WASTE            | 0.0                    | 3 078.5                    | 0         | 960        | 0.0       | 0.0        |
| MET. DIFF.              | 56.1                   | 0.0                        | (1)       | (1)        | 0.0       | 148.8      |
| DELIVERIES              | 286 832.5              | 0.0                        | 0         | 13 800     | 0.0       | 0.0        |
|                         | 290 000.7              | 3 078.5                    | 49 782    | 14 759     | 390 198.4 | 327 869.5  |
| SYNCRUDE                |                        | Diluent<br>Naphtha         |           |            |           |            |
| OPEN. INV.              | 14 128                 | 73 190                     | 8 040 685 | 1 606      | 195 837   | 86 661     |
| FR. SUNCOR              | 0                      | 0                          | 0         | 0          | 0         | 0          |
| PRODUCTION              | 626 588 (B)            | 5 627 (C)                  | 60 795    | 27 066     | 688 065   | 618 837    |
| CLOS. INV.              | 34 359                 | 73 845                     | 8 101 480 | 1 625      | 150 380   | 78 730     |
|                         | 606 357                | 4 972                      | 0         | 27 047     | 733 522   | 626 768    |
| FURTHER                 |                        |                            |           |            |           |            |
| PROCESSING              | 0                      | 0                          | 0         | 0          | 733 521   | 609 716    |
| FUEL                    | 4 257                  | 0                          | 0         | 0          | 0         | 0          |
| FLARED/WASTE            | 0                      | 4 972                      | 0         | 0          | 0         | 0          |
| MET. DIFF.              | (36)                   | 0                          | 0         | 0          | 1         | 17 052     |
| DILUENT CARRY<br>/RERUN | 0                      | 0                          | 0         | 0          | 0         | 0          |
| TO SUNCOR               | 0                      | 0                          | 0         | 0          | 0         | 0          |
| DELIVERIES              | 602 136                | 0                          | 0         | 27 047     | 0         | 0          |
|                         | 606 357                | 4 972                      | 0         | 27 047     | 733 522   | 626 768    |



|                     |            |        |          | 1989                  | AUGUST   |
|---------------------|------------|--------|----------|-----------------------|----------|
|                     |            |        |          | YEAR TO DATE          |          |
| SUNCOR<br>OIL SANDS |            |        |          | SYNCRUDE<br>OIL SANDS |          |
|                     |            | TONNES | GRADE    | TONNES                | GRADE    |
| PRODUCTION          | 27 292 312 |        | 12.01    | 71 789 401            | 10.45    |
| PROCESSED           | 27 292 312 |        | 12.01    | 68 568 737            | 10.50    |
| EXTERNAL ENERGY     |            |        |          | EXTERNAL ENERGY       |          |
|                     |            | GAS    | ELECTRIC | GAS                   | ELECTRIC |
|                     |            | 3 3    |          | 3 3                   |          |
|                     |            | 10 m   | GWh      | 10 m                  | GWh      |
| PURCHASED           | 148 084.8  |        | 129.0    | 737 048.0             | 145.0    |
| GENERATED           | 0.0        |        | 236.7    | 0.0                   | 776.7    |
|                     | 148 084.8  |        | 365.7    | 737 048.0             | 921.7    |
| PLANT USE           | 76 188.8   |        | 365.7    | 317 848.0             | 921.7    |
| FURTHER             |            |        |          |                       |          |
| PROCESSING          | 69 744.3   |        | 0.0      | 419 200.0             | 0.0      |
| FLARED              | 0.0        |        | 0.0      | 0.0                   | 0.0      |
| METERING            |            |        |          |                       |          |
| DIFFERENCE          | 2 151.7    |        | 0.0      | 0.0                   | 0.0      |
|                     | 148 084.8  |        | 365.7    | 737 048.0             | 921.7    |





## 4

AUGUST

## INTERMEDIATES

| OPERATOR          | PRODUCTS               |         |                            |         | INTERMEDIATES |          |             |             |
|-------------------|------------------------|---------|----------------------------|---------|---------------|----------|-------------|-------------|
|                   | SYNTHETIC<br>CRUDE OIL |         | OTHER<br>HYDRO<br>-CARBONS |         | COKE          | SULPHUR  | BITUMEN     | DISTILLATE  |
|                   | 3<br>m                 |         | 3<br>m                     |         | TONNES        | TONNES   | 3<br>m      | 3<br>m      |
| SUNCOR            |                        |         | Diluent<br>Naptha          |         |               |          |             |             |
| OPEN. INV.        | 84                     | 125.5   | 48                         | 123.3   | 2 497 965     | 159 200  | 32 386.7    | 4 386.4     |
| FR. SYNCRUDE      |                        | 0.0     |                            | 0.0     | 0             | 0 (A)    | 0.0         | 0.0         |
| PRODUCTION        | 2 234                  | 028.8   | 31                         | 720.4   | 695 468       | 87 828   | 2 972 188.1 | 2 432 893.6 |
| CLOS. INV.        | 80                     | 863.9   | 39                         | 881.2   | 2 667 828     | 156 805  | 30 580.3    | 6 878.1     |
|                   | 2 237                  | 290.4   | 39                         | 962.5   | 525 605       | 90 223   | 2 973 994.5 | 2 430 401.9 |
| FURTHER           |                        |         |                            |         |               |          |             |             |
| PROCESSING        |                        | 0.0     |                            | 0.0     | 0             | 0        | 2 973 994.5 | 2 395 632.9 |
| FUEL              | 29                     | 510.5   |                            | 0.0     | 467 501       | 0        | 0.0         | 7 772.9     |
| FLARED/WASTE      |                        | 0.0     | 39                         | 962.5   | 0             | 5 796    | 0.0         | 7 437.1     |
| MET. DIFF.        |                        | 590.2   |                            | 0.0     | 58 104        | (14 640) | 0.0         | 2 293.3     |
| DELIVERIES        | 2 207                  | 189.7   |                            | 0.0     | 0             | 99 067   | 0.0         | 17 265.7    |
|                   | 2 237                  | 290.4   | 39                         | 962.5   | 525 605       | 90 223   | 2 973 994.5 | 2 430 401.9 |
| SYNCRUDE          |                        |         |                            |         |               |          |             |             |
| OPEN. INV.        | 25                     | 125     | 66                         | 761     | 7 529 243     | 1 545    | 233 159     | 121 244     |
| FR. SUNCOR        |                        | 0       |                            | 0       | 0             | 0        | 0           | 0           |
| PRODUCTION        | 5 570                  | 382 (B) | 51                         | 268 (C) | 572 237       | 235 386  | 6 529 841   | 5 506 555   |
| CLOS. INV.        | 34                     | 359     | 73                         | 845     | 8 101 480     | 1 625    | 150 380     | 78 730      |
|                   | 5 561                  | 148     | 44                         | 184     | 0             | 235 306  | 6 612 620   | 5 549 069   |
| FURTHER           |                        |         |                            |         |               |          |             |             |
| PROCESSING        |                        | 0       |                            | 0       | 0             | 0        | 6 607 543   | 5 441 954   |
| FUEL              | 31                     | 845     |                            | 0       | 0             | 0        | 0           | 0           |
| FLARED/WASTE      |                        | 0       | 44                         | 185     | 0             | 0        | 0           | 0           |
| MET. DIFF.        |                        | (16)    |                            | (1)     | 0             | 0        | 3 974       | 107 115     |
| DILUENT CARRYOVER |                        |         |                            |         |               |          |             |             |
| /RERUN            |                        | 0       |                            | 0       | 0             | 0        | 0           | 0           |
| TO SUNCOR         |                        | 0       |                            | 0       | 0             | 0        | 0           | 0           |
| DELIVERIES        | 5 529                  | 319     |                            | 0       | 0             | 235 306  | 1 103       | 0           |
|                   | 5 561                  | 148     | 44                         | 184     | 0             | 235 306  | 6 612 620   | 5 549 069   |





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# Alberta Oil Sands Plant Statistics Monthly Supplement

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September 1989





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# **Alberta**

# **Oil Sands Plant Statistics**

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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 °C.
3. LIQUID VOLUME AT 15 °C.

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## NOTES

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- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.



|                     |           |          | 1989                  | SEPTEMBER        |          |
|---------------------|-----------|----------|-----------------------|------------------|----------|
|                     |           |          | YEAR                  | MONTH            |          |
| SUNCOR<br>OIL SANDS |           |          | SYNCRUDE<br>OIL SANDS |                  |          |
| -----               |           |          | -----                 |                  |          |
|                     | TONNES    | GRADE    | TONNES                | GRADE            |          |
| -----               |           |          | -----                 |                  |          |
| PRODUCTION          | 3 421 463 | 11.95    | PRODUCTION            | 9 529 858 10.25  |          |
| =====               |           |          | =====                 |                  |          |
| PROCESSED           | 3 421 463 | 11.95    | PROCESSED             | 10 336 833 10.20 |          |
| =====               |           |          | =====                 |                  |          |
| EXTERNAL ENERGY     |           |          | EXTERNAL ENERGY       |                  |          |
| -----               |           |          | -----                 |                  |          |
|                     | GAS       | ELECTRIC |                       | GAS              | ELECTRIC |
|                     | 3 3       |          |                       | 3 3              |          |
|                     | 10 m      | GWh      |                       | 10 m             | GWh      |
| -----               |           |          | -----                 |                  |          |
| PURCHASED           | 20 808.8  | 24.6     | PURCHASED             | 81 479.0         | 5.5      |
| GENERATED           | 0.0       | 18.2     | GENERATED             | 0.0              | 105.4    |
| -----               |           |          | -----                 |                  |          |
|                     | 20 808.8  | 42.8     |                       | 81 479.0         | 110.9    |
| =====               |           |          | =====                 |                  |          |
| PLANT USE           | 7 093.5   | 42.8     | PLANT USE             | 34 829.0         | 110.9    |
| FURTHER             |           |          | FURTHER               |                  |          |
| PROCESSING          | 13 715.3  | 0.0      | PROCESSING            | 46 650.0         | 0.0      |
| FLARED              | 0.0       | 0.0      | FLARED                | 0.0              | 0.0      |
| METERING            |           |          | METERING              |                  |          |
| DIFFERENCE          | 0.0       | 0.0      | DIFFERENCE            | 0.0              | 0.0      |
| -----               |           |          | -----                 |                  |          |
|                     | 20 808.8  | 42.8     |                       | 81 479.0         | 110.9    |
| -----               |           |          | -----                 |                  |          |



## BITUMEN SYNTHETIC PLANT OPERATIONS

2

|                   |                        | 1989                       |           | SEPTEMBER  |                |                |
|-------------------|------------------------|----------------------------|-----------|------------|----------------|----------------|
|                   |                        | YEAR                       |           | MONTH      |                |                |
| OPERATOR          | PRODUCTS               | INTERMEDIATES              |           |            |                |                |
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR    | BITUMEN        | DISTILLATE     |
|                   | m <sup>3</sup>         | m <sup>3</sup>             | TONNES    | TONNES     | m <sup>3</sup> | m <sup>3</sup> |
| SUNCOR            |                        | Diluent<br>Naphtha         |           |            |                |                |
| OPEN. INV.        | 80 863.9               | 39 881.2                   | 2 667 828 | 156 805    | 30 580.3       | 6 878.1        |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0         | 0          | 0.0            | 0.0            |
| PRODUCTION        | 308 428.1              | 9 714.8                    | 93 984    | 11 832 (A) | 384 540.5      | 333 351.9      |
| CLOS. INV.        | 79 231.6               | 45 180.5                   | 2 716 271 | 151 886    | 12 798.8       | 5 111.0        |
|                   | 310 060.4              | 4 415.5                    | 45 541    | 16 751     | 402 322.0      | 335 119.0      |
| FURTHER           |                        |                            |           |            |                |                |
| PROCESSING        | 0.0                    | 0.0                        | 0         | 0          | 402 322.0      | 334 277.5      |
| FUEL              | 2 827.3                | 0.0                        | 45 541    | 0          | 0.0            | 834.3          |
| FLARED/WASTE      | 0.0                    | 4 415.5                    | 0         | 1 115      | 0.0            | 0.0            |
| MET. DIFF.        | (453.5)                | 0.0                        | 0         | 0          | 0.0            | 7.2            |
| DELIVERIES        | 307 686.6              | 0.0                        | 0         | 15 636     | 0.0            | 0.0            |
|                   | 310 060.4              | 4 415.5                    | 45 541    | 16 751     | 402 322.0      | 335 119.0      |
| SYNCRUDE          |                        | Diluent<br>Naphtha         |           |            |                |                |
| OPEN. INV.        | 34 359                 | 73 845                     | 8 101 480 | 1 625      | 150 380        | 78 730         |
| FR. SUNCOR        | 0                      | 0                          | 0         | 0          | 0              | 0              |
| PRODUCTION        | 811 291 (B)            | (5 791)(C)                 | 87 914    | 31 910     | 946 250        | 779 919        |
| CLOS. INV.        | 31 943                 | 63 201                     | 8 189 394 | 1 838      | 155 002        | 61 502         |
|                   | 813 707                | 4 853                      | 0         | 31 697     | 941 628        | 797 147        |
| FURTHER           |                        |                            |           |            |                |                |
| PROCESSING        | 0                      | 0                          | 0         | 0          | 941 628        | 794 897        |
| FUEL              | 4 610                  | 0                          | 0         | 0          | 0              | 0              |
| FLARED/WASTE      | 0                      | 4 853                      | 0         | 0          | 0              | 0              |
| MET. DIFF.        | 4                      | 0                          | 0         | 0          | 0              | 2 250          |
| DILUENT CARRYOVER |                        |                            |           |            |                |                |
| /RERUN            | 0                      | 0                          | 0         | 0          | 0              | 0              |
| TO SUNCOR         | 0                      | 0                          | 0         | 0          | 0              | 0              |
| DELIVERIES        | 809 093                | 0                          | 0         | 31 697     | 0              | 0              |
|                   | 813 707                | 4 853                      | 0         | 31 697     | 941 628        | 797 147        |



|                     |            | 1989 SEPTEMBER        |            |            |          |
|---------------------|------------|-----------------------|------------|------------|----------|
|                     |            | YEAR TO DATE          |            |            |          |
| SUNCOR<br>OIL SANDS |            | SYNCRUDE<br>OIL SANDS |            |            |          |
|                     | TONNES     | GRADE                 |            |            |          |
| PRODUCTION          | 30 713 775 | 12.00                 | PRODUCTION | 81 319 259 | 10.43    |
| PROCESSED           | 30 713 775 | 12.00                 | PROCESSED  | 78 905 570 | 10.46    |
| EXTERNAL ENERGY     |            | EXTERNAL ENERGY       |            |            |          |
|                     | GAS        | ELECTRIC              |            | GAS        | ELECTRIC |
|                     | 3 3        |                       |            | 3 3        |          |
|                     | 10 m       | GWh                   |            | 10 m       | GWh      |
| PURCHASED           | 168 893.6  | 153.6                 | PURCHASED  | 818 527.0  | 150.5    |
| GENERATED           | 0.0        | 254.9                 | GENERATED  | 0.0        | 882.1    |
|                     | 168 893.6  | 408.5                 |            | 818 527.0  | 1 032.6  |
| PLANT USE           | 83 282.3   | 408.5                 | PLANT USE  | 352 677.0  | 1 032.6  |
| FURTHER             |            |                       | FURTHER    |            |          |
| PROCESSING          | 83 459.6   | 0.0                   | PROCESSING | 465 850.0  | 0.0      |
| FLARED              | 0.0        | 0.0                   | FLARED     | 0.0        | 0.0      |
| METERING            |            |                       | METERING   |            |          |
| DIFFERENCE          | 2 151.7    | 0.0                   | DIFFERENCE | 0.0        | 0.0      |
|                     | 168 893.6  | 408.5                 |            | 818 527.0  | 1 032.6  |





## 4

YEAR TO DATE

| OPERATOR          | PRODUCTS               |       |                            |       | INTERMEDIATES |         |         |       |         |       |            |       |
|-------------------|------------------------|-------|----------------------------|-------|---------------|---------|---------|-------|---------|-------|------------|-------|
|                   | SYNTHETIC<br>CRUDE OIL |       | OTHER<br>HYDRO<br>-CARBONS |       | COKE          |         | SULPHUR |       | BITUMEN |       | DISTILLATE |       |
|                   | 3<br>m                 |       | 3<br>m                     |       | TONNES        |         | TONNES  |       | 3<br>m  |       | 3<br>m     |       |
| SUNCOR            |                        |       | Diluent<br>Naptha          |       |               |         |         |       |         |       |            |       |
| OPEN. INV.        | 84                     | 125.5 | 48                         | 123.3 | 2             | 497 965 | 159     | 200   | 32      | 386.7 | 4          | 386.4 |
| FR. SYNCRUDE      |                        | 0.0   |                            | 0.0   |               | 0       |         | 0 (A) |         | 0.0   |            | 0.0   |
| PRODUCTION        | 2 542                  | 456.9 | 41                         | 435.2 | 789           | 452     | 99      | 660   | 3 356   | 728.6 | 2 766      | 245.5 |
| CLOS. INV.        | 79                     | 231.6 | 45                         | 180.5 | 2 716         | 271     | 151     | 886   | 12      | 798.8 | 5          | 111.0 |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0.0   |                            | 0.0   |               | 0       |         | 0     | 3 376   | 316.5 | 2 729      | 910.4 |
| FUEL              | 32                     | 337.8 |                            | 0.0   | 513           | 042     |         | 0     |         | 0.0   | 8          | 607.2 |
| FLARED/WASTE      |                        | 0.0   | 44                         | 378.0 |               | 0       | 6       | 911   |         | 0.0   | 7          | 437.1 |
| MET. DIFF.        |                        | 136.7 |                            | 0.0   | 58            | 104     | (14     | 640)  |         | 0.0   | 2          | 300.5 |
| DELIVERIES        | 2 514                  | 876.3 |                            | 0.0   |               | 0       | 114     | 703   |         | 0.0   | 17         | 265.7 |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
| MET. DIFF.        |                        | (12)  |                            | (1)   |               | 0       |         | 0     | 3 974   |       | 109        | 365   |
| DILUENT CARRYOVER |                        |       |                            |       |               |         |         |       |         |       |            |       |
| /RERUN            |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| TO SUNCOR         |                        | 0     |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| DELIVERIES        | 6 338                  | 412   |                            | 0     |               | 0       | 267     | 003   | 1 103   |       |            | 0     |
| =====             |                        |       |                            |       |               |         |         |       |         |       |            |       |
| FURTHER           |                        |       |                            |       |               |         |         |       |         |       |            |       |
| PROCESSING        |                        | 0     |                            | 0     |               | 0       |         | 0     | 7 549   | 171   | 6 236      | 851   |
| FUEL              | 36                     | 455   |                            | 0     |               | 0       |         | 0     |         | 0     |            | 0     |
| FLARED/WASTE      |                        | 0     | 49                         | 038   |               | 0       |         | 0     |         | 0     |            | 0     |
|                   |                        |       |                            |       |               |         |         |       |         |       |            |       |



CANADIANA

JAN 29 1990



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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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**October 1989**





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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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ENERGY RESOURCES CONSERVATION BOARD  
STATISTICAL SERIES

ALBERTA OIL SANDS PLANT STATISTICS  
MONTHLY SUPPLEMENT

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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 °C.
3. LIQUID VOLUME AT 15 °C.

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## NOTES

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- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.



BITUMEN SYNTHETIC PLANT OPERATIONS

1

|                     |                    |                     | 1989                  | OCTOBER                                |
|---------------------|--------------------|---------------------|-----------------------|--|
|                     |                    |                     | YEAR                  | MONTH                                  |
| SUNCOR<br>OIL SANDS |                    |                     | SYNCRUDE<br>OIL SANDS |  |
|                     | TONNES             | GRADE               | TONNES                | GRADE                                  |
| PRODUCTION          | 3 070 891          | 12.10               | PRODUCTION            | 10 040 499 10.65                       |
| PROCESSED           | 3 070 891          | 12.10               | PROCESSED             | 10 899 375 10.46                       |
| EXTERNAL ENERGY     |                    |                     | EXTERNAL ENERGY       |  |
|                     | GAS<br>3 3<br>10 m | ELECTRIC<br><br>GWh |                       | GAS<br>3 3<br>10 m ELECTRIC<br><br>GWh |
| PURCHASED           | 32 368.2           | 20.4                | PURCHASED             | 88 737.0 16.0                          |
| GENERATED           | 0.0                | 14.5                | GENERATED             | 0.0 103.4                              |
|                     | 32 368.2           | 34.9                |                       | 88 737.0 119.4                         |
| PLANT USE           | 18 826.1           | 34.9                | PLANT USE             | 39 939.0 119.4                         |
| FURTHER             |                    |                     | FURTHER               |  |
| PROCESSING          | 13 126.5           | 0.0                 | PROCESSING            | 48 798.0 0.0                           |
| FLARED              | 415.6              | 0.0                 | FLARED                | 0.0 0.0                                |
| METERING            |                    |                     | METERING              |  |
| DIFFERENCE          | 0.0                | 0.0                 | DIFFERENCE            | 0.0 0.0                                |
|                     | 32 368.2           | 34.9                |                       | 88 737.0 119.4                         |



## BITUMEN SYNTHETIC PLANT OPERATIONS

2

|                   |                        | 1989                       |           | OCTOBER   |           |            |  |
|-------------------|------------------------|----------------------------|-----------|-----------|-----------|------------|--|
|                   |                        | YEAR                       |           | MONTH     |           |            |  |
| OPERATOR          | PRODUCTS               | INTERMEDIATES              |           |           |           |            |  |
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR   | BITUMEN   | DISTILLATE |  |
|                   | 3<br>m                 | 3<br>m                     | TONNES    | TONNES    | 3<br>m    | 3<br>m     |  |
| <hr/>             |                        |                            |           |           |           |            |  |
| SUNCOR            |                        | Diluent<br>Naptha          |           |           |           |            |  |
| OPEN. INV.        | 79 231.6               | 45 180.5                   | 2 716 271 | 151 886   | 12 798.8  | 5 111.0    |  |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0         | 0         | 0.0       | 0.0        |  |
| PRODUCTION        | 243 896.0              | 757.4                      | 73 681    | 9 197 (A) | 349 092.6 | 264 924.0  |  |
| CLOS. INV.        | 76 544.2               | 41 582.6                   | 2 743 451 | 148 325   | 46 452.9  | 5 432.7    |  |
|                   | 246 583.4              | 4 355.3                    | 46 501    | 12 758    | 315 438.5 | 264 602.3  |  |
| <hr/>             |                        |                            |           |           |           |            |  |
| FURTHER           |                        |                            |           |           |           |            |  |
| PROCESSING        | 0.0                    | 0.0                        | 0         | 0         | 315 438.4 | 259 868.5  |  |
| FUEL              | 3 550.8                | 0.0                        | 46 501    | 0         | 0.0       | 3 106.5    |  |
| FLARED/WASTE      | 0.0                    | 4 355.3                    | 0         | 1 027     | 0.0       | 1 702.8    |  |
| MET. DIFF.        | 2 521.3                | 0.0                        | 0         | 0         | 0.1       | (75.5)     |  |
| DELIVERIES        | 240 511.3              | 0.0                        | 0         | 11 731    | 0.0       | 0.0        |  |
|                   | 246 583.4              | 4 355.3                    | 46 501    | 12 758    | 315 438.5 | 264 602.3  |  |
| <hr/>             |                        |                            |           |           |           |            |  |
| <hr/>             |                        |                            |           |           |           |            |  |
| SYNCRUDE          |                        | Diluent<br>Naphtha         |           |           |           |            |  |
| OPEN. INV.        | 31 943                 | 63 201                     | 8 189 394 | 1 838     | 155 002   | 61 502     |  |
| FR. SUNCOR        | 0                      | 0                          | 0         | 0         | 0         | 0          |  |
| PRODUCTION        | 804 059 (B)            | (3 027)(C)                 | 89 118    | 32 890    | 1 042 572 | 801 670    |  |
| CLOS. INV.        | 32 707                 | 55 004                     | 8 278 512 | 1 505     | 227 102   | 72 658     |  |
|                   | 803 295                | 5 170                      | 0         | 33 223    | 970 472   | 790 514    |  |
| <hr/>             |                        |                            |           |           |           |            |  |
| <hr/>             |                        |                            |           |           |           |            |  |
| FURTHER           |                        |                            |           |           |           |            |  |
| PROCESSING        | 0                      | 0                          | 0         | 0         | 970 473   | 785 931    |  |
| FUEL              | 4 408                  | 0                          | 0         | 0         | 0         | 0          |  |
| FLARED/WASTE      | 0                      | 5 170                      | 0         | 0         | 0         | 0          |  |
| MET. DIFF.        | (1)                    | 0                          | 0         | 0         | (1)       | 4 583      |  |
| DILUENT CARRYOVER |                        |                            |           |           |           |            |  |
| /RERUN            | 0                      | 0                          | 0         | 0         | 0         | 0          |  |
| TO SUNCOR         | 0                      | 0                          | 0         | 0         | 0         | 0          |  |
| DELIVERIES        | 798 888                | 0                          | 0         | 33 223    | 0         | 0          |  |
|                   | 803 295                | 5 170                      | 0         | 33 223    | 970 472   | 790 514    |  |
| <hr/>             |                        |                            |           |           |           |            |  |
| <hr/>             |                        |                            |           |           |           |            |  |



|                     |            |          | 1989                  |            | OCTOBER  |  |
|---------------------|------------|----------|-----------------------|------------|----------|--|
|                     |            |          | YEAR TO DATE          |            |          |  |
| SUNCOR<br>OIL SANDS |            |          | SYNCRUDE<br>OIL SANDS |            |          |  |
|                     | TONNES     | GRADE    |                       | TONNES     | GRADE    |  |
| PRODUCTION          | 33 784 666 | 12.01    | PRODUCTION            | 91 359 758 | 10.45    |  |
| PROCESSED           | 33 784 666 | 12.01    | PROCESSED             | 89 804 945 | 10.46    |  |
| EXTERNAL ENERGY     |            |          | EXTERNAL ENERGY       |            |          |  |
|                     | GAS        | ELECTRIC |                       | GAS        | ELECTRIC |  |
|                     | 3 3        |          |                       | 3 3        |          |  |
|                     | 10 m       | GWh      |                       | 10 m       | GWh      |  |
| PURCHASED           | 201 261.8  | 174.0    | PURCHASED             | 907 264.0  | 166.5    |  |
| GENERATED           | 0.0        | 269.4    | GENERATED             | 0.0        | 985.5    |  |
|                     | 201 261.8  | 443.4    |                       | 907 264.0  | 1 152.0  |  |
| PLANT USE           | 102 108.4  | 443.4    | PLANT USE             | 392 616.0  | 1 152.0  |  |
| FURTHER             |            |          | FURTHER               |            |          |  |
| PROCESSING          | 96 586.1   | 0.0      | PROCESSING            | 514 648.0  | 0.0      |  |
| FLARED              | 415.6      | 0.0      | FLARED                | 0.0        | 0.0      |  |
| METERING            |            |          | METERING              |            |          |  |
| DIFFERENCE          | 2 151.7    | 0.0      | DIFFERENCE            | 0.0        | 0.0      |  |
|                     | 201 261.8  | 443.4    |                       | 907 264.0  | 1 152.0  |  |





## BITUMEN SYNTHETIC PLANT OPERATIONS

4

1989 OCTOBER

YEAR TO DATE

| OPERATOR          | PRODUCTS               |                            | INTERMEDIATES |          |             |             |  |
|-------------------|------------------------|----------------------------|---------------|----------|-------------|-------------|--|
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE          | SULPHUR  | BITUMEN     | DISTILLATE  |  |
|                   | 3<br>m                 | 3<br>m                     | TONNES        | TONNES   | 3<br>m      | 3<br>m      |  |
| SUNCOR            |                        | Diluent<br>Naptha          |               |          |             |             |  |
| OPEN. INV.        | 84 125.5               | 48 123.3                   | 2 497 965     | 159 200  | 32 386.7    | 4 386.4     |  |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0             | 0 (A)    | 0.0         | 0.0         |  |
| PRODUCTION        | 2 786 352.9            | 42 192.6                   | 863 133       | 108 857  | 3 705 821.2 | 3 031 169.5 |  |
| CLOS. INV.        | 76 544.2               | 41 582.6                   | 2 743 451     | 148 325  | 46 452.9    | 5 432.7     |  |
|                   | 2 793 934.2            | 48 733.3                   | 617 647       | 119 732  | 3 691 755.0 | 3 030 123.2 |  |
| FURTHER           |                        |                            |               |          |             |             |  |
| PROCESSING        | 0.0                    | 0.0                        | 0             | 0        | 3 691 754.9 | 2 989 778.9 |  |
| FUEL              | 35 888.6               | 0.0                        | 559 543       | 0        | 0.0         | 11 713.7    |  |
| FLARED/WASTE      | 0.0                    | 48 733.3                   | 0             | 7 938    | 0.0         | 9 139.9     |  |
| MET. DIFF.        | 2 658.0                | 0.0                        | 58 104        | (14 640) | 0.1         | 2 225.0     |  |
| DELIVERIES        | 2 755 387.6            | 0.0                        | 0             | 126 434  | 0.0         | 17 265.7    |  |
|                   | 2 793 934.2            | 48 733.3                   | 617 647       | 119 732  | 3 691 755.0 | 3 030 123.2 |  |
| SYNCRUDE          |                        |                            |               |          |             |             |  |
| OPEN. INV.        | 25 125                 | 66 761                     | 7 529 243     | 1 545    | 233 159     | 121 244     |  |
| FR. SUNCOR        | 0                      | 0                          | 0             | 0        | 0           | 0           |  |
| PRODUCTION        | 7 185 732 (B)          | 42 450 (C)                 | 749 269       | 300 186  | 8 518 663   | 7 088 144   |  |
| CLOS. INV.        | 32 707                 | 55 004                     | 8 278 512     | 1 505    | 227 102     | 72 658      |  |
|                   | 7 178 150              | 54 207                     | 0             | 300 226  | 8 524 720   | 7 136 730   |  |
| FURTHER           |                        |                            |               |          |             |             |  |
| PROCESSING        | 0                      | 0                          | 0             | 0        | 8 519 644   | 7 022 782   |  |
| FUEL              | 40 863                 | 0                          | 0             | 0        | 0           | 0           |  |
| FLARED/WASTE      | 0                      | 54 208                     | 0             | 0        | 0           | 0           |  |
| MET. DIFF.        | (13)                   | (1)                        | 0             | 0        | 3 973       | 113 948     |  |
| DILUENT CARRYOVER |                        |                            |               |          |             |             |  |
| /RERUN            | 0                      | 0                          | 0             | 0        | 0           | 0           |  |
| TO SUNCOR         | 0                      | 0                          | 0             | 0        | 0           | 0           |  |
| DELIVERIES        | 7 137 300              | 0                          | 0             | 300 226  | 1 103       | 0           |  |
|                   | 7 178 150              | 54 207                     | 0             | 300 226  | 8 524 720   | 7 136 730   |  |



CANADIANA

FEB 19 1990



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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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**November 1989**





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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 °C.
3. LIQUID VOLUME AT 15 °C.

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## NOTES

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- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.



BITUMEN SYNTHETIC PLANT OPERATIONS

1

|                 | SUNCOR<br>OIL SANDS |          |
|-----------------|---------------------|----------|
|                 | TONNES              | GRADE    |
|                 | -----               | -----    |
| PRODUCTION      | 3 383 149           | 12.17    |
| =====           | =====               | =====    |
| PROCESSED       | 3 383 149           | 12.17    |
| =====           | =====               | =====    |
| EXTERNAL ENERGY |                     |          |
|                 | GAS                 | ELECTRIC |
|                 | 3 3                 |          |
|                 | 10 m                | GWh      |
|                 | -----               | -----    |
| PURCHASED       | 17 425.1            | 8.7      |
| GENERATED       | 0.0                 | 20.1     |
| =====           | =====               | =====    |
|                 | 17 425.1            | 28.8     |
| =====           | =====               | =====    |
| PLANT USE       | 4 908.3             | 28.8     |
| FURTHER         |                     |          |
| PROCESSING      | 11 896.2            | 0.0      |
| FLARED          | 620.6               | 0.0      |
| METERING        |                     |          |
| DIFFERENCE      | 0.0                 | 0.0      |
| =====           | =====               | =====    |
|                 | 17 425.1            | 28.8     |
| =====           | =====               | =====    |

|                 | 1989                  | NOVEMBER |
|-----------------|-----------------------|----------|
|                 | YEAR                  | MONTH    |
|                 | -----                 | -----    |
|                 | SYNCRUDE<br>OIL SANDS |          |
|                 | TONNES                | GRADE    |
|                 | -----                 | -----    |
| PRODUCTION      | 9 855 027             | 10.30    |
| =====           | =====                 | =====    |
| PROCESSED       | 9 987 366             | 10.43    |
| =====           | =====                 | =====    |
| EXTERNAL ENERGY |                       |          |
|                 | GAS                   | ELECTRIC |
|                 | 3 3                   |          |
|                 | 10 m                  | GWh      |
|                 | -----                 | -----    |
| PURCHASED       | 96 524.0              | 13.4     |
| GENERATED       | 0.0                   | 116.2    |
| =====           | =====                 | =====    |
|                 | 96 524.0              | 129.6    |
| =====           | =====                 | =====    |
| PLANT USE       | 39 632.0              | 129.6    |
| FURTHER         |                       |          |
| PROCESSING      | 56 892.0              | 0.0      |
| FLARED          | 0.0                   | 0.0      |
| METERING        |                       |          |
| DIFFERENCE      | 0.0                   | 0.0      |
| =====           | =====                 | =====    |
|                 | 96 524.0              | 129.6    |
| =====           | =====                 | =====    |



## BITUMEN SYNTHETIC PLANT OPERATIONS

2

|                   |                        | 1989                       |           | NOVEMBER   |           |            |  |
|-------------------|------------------------|----------------------------|-----------|------------|-----------|------------|--|
|                   |                        | YEAR                       |           | MONTH      |           |            |  |
| OPERATOR          | PRODUCTS               | INTERMEDIATES              |           |            |           |            |  |
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR    | BITUMEN   | DISTILLATE |  |
|                   | 3<br>m                 | 3<br>m                     | TONNES    | TONNES     | 3<br>m    | 3<br>m     |  |
| SUNCOR            |                        | Diluent<br>Naphtha         |           |            |           |            |  |
| OPEN. INV.        | 76 544.2               | 41 582.6                   | 2 743 451 | 148 325    | 46 452.9  | 5 432.7    |  |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0         | 0          | 0.0       | 0.0        |  |
| PRODUCTION        | 308 553.8              | 5 395.8                    | 92 223    | 12 054 (A) | 382 643.2 | 322 843.8  |  |
| CLOS. INV.        | 77 944.4               | 44 767.5                   | 2 816 780 | 149 149    | 34 430.2  | 5 610.5    |  |
|                   | 307 153.6              | 2 210.9                    | 18 894    | 11 230     | 394 665.9 | 322 666.0  |  |
| FURTHER           |                        |                            |           |            |           |            |  |
| PROCESSING        | 0.0                    | 0.0                        | 0         | 0          | 394 665.9 | 321 428.2  |  |
| FUEL              | 2 868.2                | 0.0                        | 68 094    | 0          | 0.0       | 919.9      |  |
| FLARED/WASTE      | 0.0                    | 2 210.9                    | 0         | 555        | 0.0       | 243.4      |  |
| MET. DIFF.        | 28.5                   | 0.0                        | (49 200)  | (4 456)    | 0.0       | 74.5       |  |
| DELIVERIES        | 304 256.9              | 0.0                        | 0         | 15 131     | 0.0       | 0.0        |  |
|                   | 307 153.6              | 2 210.9                    | 18 894    | 11 230     | 394 665.9 | 322 666.0  |  |
| SYNCRUDE          |                        | Diluent<br>Naphtha         |           |            |           |            |  |
| OPEN. INV.        | 32 707                 | 55 004                     | 8 278 512 | 1 505      | 227 102   | 72 658     |  |
| FR. SUNCOR        | 0                      | 0                          | 0         | 0          | 0         | 0          |  |
| PRODUCTION        | 863 967 (B)            | 13 689 (C)                 | 87 091    | 35 984     | 952 160   | 853 250    |  |
| CLOS. INV.        | 21 344                 | 64 401                     | 8 365 603 | 1 486      | 159 729   | 59 738     |  |
|                   | 875 330                | 4 292                      | 0         | 36 003     | 1 019 533 | 866 170    |  |
| FURTHER           |                        |                            |           |            |           |            |  |
| PROCESSING        | 0                      | 0                          | 0         | 0          | 1 019 532 | 847 264    |  |
| FUEL              | 3 790                  | 0                          | 0         | 0          | 0         | 0          |  |
| FLARED/WASTE      | 0                      | 4 292                      | 0         | 0          | 0         | 0          |  |
| MET. DIFF.        | 20                     | 0                          | 0         | 0          | 1         | 18 906     |  |
| DILUENT CARRYOVER |                        |                            |           |            |           |            |  |
| /RERUN            | 0                      | 0                          | 0         | 0          | 0         | 0          |  |
| TO SUNCOR         | 0                      | 0                          | 0         | 0          | 0         | 0          |  |
| DELIVERIES        | 871 520                | 0                          | 0         | 36 003     | 0         | 0          |  |
|                   | 875 330                | 4 292                      | 0         | 36 003     | 1 019 533 | 866 170    |  |



|                     |            |          | 1989                  | NOVEMBER    |          |
|---------------------|------------|----------|-----------------------|-------------|----------|
|                     |            |          | YEAR TO DATE          |             |          |
| SUNCOR<br>OIL SANDS |            |          | SYNCRUDE<br>OIL SANDS |             |          |
|                     | TONNES     | GRADE    |                       | TONNES      | GRADE    |
| PRODUCTION          | 37 167 815 | 12.02    | PRODUCTION            | 101 214 785 | 10.45    |
| PROCESSED           | 37 167 815 | 12.02    | PROCESSED             | 99 792 311  | 10.50    |
| EXTERNAL ENERGY     |            |          | EXTERNAL ENERGY       |             |          |
|                     | GAS        | ELECTRIC |                       | GAS         | ELECTRIC |
|                     | 3 3        |          |                       | 3 3         |          |
|                     | 10 m       | GWh      |                       | 10 m        | GWh      |
| PURCHASED           | 218 686.9  | 182.7    | PURCHASED             | 1 003 788.0 | 179.9    |
| GENERATED           | 0.0        | 289.5    | GENERATED             | 0.0         | 1 101.7  |
|                     | 218 686.9  | 472.2    |                       | 1 003 788.0 | 1 281.6  |
| PLANT USE           | 107 016.7  | 472.2    | PLANT USE             | 432 248.0   | 1 281.6  |
| FURTHER             |            |          | FURTHER               |             |          |
| PROCESSING          | 108 482.3  | 0.0      | PROCESSING            | 571 540.0   | 0.0      |
| FLARED              | 1 036.2    | 0.0      | FLARED                | 0.0         | 0.0      |
| METERING            |            |          | METERING              |             |          |
| DIFFERENCE          | 2 151.7    | 0.0      | DIFFERENCE            | 0.0         | 0.0      |
|                     | 218 686.9  | 472.2    |                       | 1 003 788.0 | 1 281.6  |





## BITUMEN SYNTHETIC PLANT OPERATIONS

4

|                   |                        | 1989 NOVEMBER              |           |          |             |             |  |
|-------------------|------------------------|----------------------------|-----------|----------|-------------|-------------|--|
|                   |                        | YEAR TO DATE               |           |          |             |             |  |
| OPERATOR          | PRODUCTS               | INTERMEDIATES              |           |          |             |             |  |
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR  | BITUMEN     | DISTILLATE  |  |
|                   | 3<br>m                 | 3<br>m                     | TONNES    | TONNES   | 3<br>m      | 3<br>m      |  |
| SUNCOR            |                        | Diluent<br>Naptha          |           |          |             |             |  |
| OPEN. INV.        | 84 125.5               | 48 123.3                   | 2 497 965 | 159 200  | 32 386.7    | 4 386.4     |  |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0         | 0 (A)    | 0.0         | 0.0         |  |
| PRODUCTION        | 3 094 906.7            | 47 588.4                   | 955 356   | 120 911  | 4 088 464.4 | 3 354 013.3 |  |
| CLOS. INV.        | 77 944.4               | 44 767.5                   | 2 816 780 | 149 149  | 34 430.2    | 5 610.5     |  |
|                   | 3 101 087.8            | 50 944.2                   | 636 541   | 130 962  | 4 086 420.9 | 3 352 789.2 |  |
| FURTHER           |                        |                            |           |          |             |             |  |
| PROCESSING        | 0.0                    | 0.0                        | 0         | 0        | 4 086 420.8 | 3 311 207.1 |  |
| FUEL              | 38 756.8               | 0.0                        | 627 637   | 0        | 0.0         | 12 633.6    |  |
| FLARED/WASTE      | 0.0                    | 50 944.2                   | 0         | 8 493    | 0.0         | 9 383.3     |  |
| MET. DIFF.        | 2 686.5                | 0.0                        | 8 904     | (19 096) | 0.1         | 2 299.5     |  |
| DELIVERIES        | 3 059 644.5            | 0.0                        | 0         | 141 565  | 0.0         | 17 265.7    |  |
|                   | 3 101 087.8            | 50 944.2                   | 636 541   | 130 962  | 4 086 420.9 | 3 352 789.2 |  |
| SYNCRUDE          |                        |                            |           |          |             |             |  |
| OPEN. INV.        | 25 125                 | 66 761                     | 7 529 243 | 1 545    | 233 159     | 121 244     |  |
| FR. SUNCOR        | 0                      | 0                          | 0         | 0        | 0           | 0           |  |
| PRODUCTION        | 8 049 699 (B)          | 56 139 (C)                 | 836 360   | 336 170  | 9 470 823   | 7 941 394   |  |
| CLOS. INV.        | 21 344                 | 64 401                     | 8 365 603 | 1 486    | 159 729     | 59 738      |  |
|                   | 8 053 480              | 58 499                     | 0         | 336 229  | 9 544 253   | 8 002 900   |  |
| FURTHER           |                        |                            |           |          |             |             |  |
| PROCESSING        | 0                      | 0                          | 0         | 0        | 9 539 176   | 7 870 046   |  |
| FUEL              | 44 653                 | 0                          | 0         | 0        | 0           | 0           |  |
| FLARED/WASTE      | 0                      | 58 500                     | 0         | 0        | 0           | 0           |  |
| MET. DIFF.        | 7                      | (1)                        | 0         | 0        | 3 974       | 132 854     |  |
| DILUENT CARRYOVER |                        |                            |           |          |             |             |  |
| /RERUN            | 0                      | 0                          | 0         | 0        | 0           | 0           |  |
| TO SUNCOR         | 0                      | 0                          | 0         | 0        | 0           | 0           |  |
| DELIVERIES        | 8 008 820              | 0                          | 0         | 336 229  | 1 103       | 0           |  |
|                   | 8 053 480              | 58 499                     | 0         | 336 229  | 9 544 253   | 8 002 900   |  |



ALBERTA  
MAR 19 1990



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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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**December 1989**





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# **Alberta**

# **Oil Sands Plant Statistics**

## **Monthly Supplement**

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NOTE: INQUIRIES REGARDING THIS PUBLICATION  
SHOULD BE DIRECTED TO THE BOARD'S  
STATISTICS DEPARTMENT AT (403) 297-2537





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## STANDARDS OF MEASUREMENTS

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1. GRADE: MASS PER CENT BITUMEN IN OIL SANDS.
2. GAS VOLUME AT 101.325 kPa AND 15 °C.
3. LIQUID VOLUME AT 15 °C.

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## NOTES

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- (A) SULPHUR PRODUCTION INCLUDES FLARED/WASTE.
- (B) SYNTHETIC CRUDE OIL PRODUCTION DOES NOT INCLUDE DILUENT NAPHTHA PRODUCTION.
- (C) OTHER HYDROCARBONS PRODUCTION INCLUDES LIGHT SLOP MATERIAL.



|                     |           | 1989                  | DECEMBER |
|---------------------|-----------|-----------------------|----------|
|                     |           | YEAR                  | MONTH    |
| SUNCOR<br>OIL SANDS |           | SYNCRUDE<br>OIL SANDS |          |
|                     | TONNES    | GRADE                 |          |
| PRODUCTION          | 2 812 788 | 12.00                 |          |
| PROCESSED           | 2 812 788 | 12.00                 |          |
| EXTERNAL ENERGY     |           | EXTERNAL ENERGY       |          |
|                     | GAS       | ELECTRIC              |          |
|                     | 3 3       |                       |          |
|                     | 10 m      | GWh                   |          |
| PURCHASED           | 18 703.3  | 7.6                   |          |
| GENERATED           | 0.0       | 41.1                  |          |
|                     | 18 703.3  | 48.7                  |          |
| PLANT USE           | 3 011.2   | 48.7                  |          |
| FURTHER             |           |                       |          |
| PROCESSING          | 13 859.9  | 0.0                   |          |
| FLARED              | 1 832.2   | 0.0                   |          |
| METERING            |           |                       |          |
| DIFFERENCE          | 0.0       | 0.0                   |          |
|                     | 18 703.3  | 48.7                  |          |

|                 |           |                 |  |
|-----------------|-----------|-----------------|--|
| PRODUCTION      | 9 140 465 | 10.53           |  |
| PROCESSED       | 9 004 617 | 10.43           |  |
| EXTERNAL ENERGY |           | EXTERNAL ENERGY |  |
|                 | GAS       | ELECTRIC        |  |
|                 | 3 3       |                 |  |
|                 | 10 m      | GWh             |  |
| PURCHASED       | 104 021.0 | 13.4            |  |
| GENERATED       | 0.0       | 108.1           |  |
|                 | 104 021.0 | 121.5           |  |
| PLANT USE       | 61 328.0  | 121.5           |  |
| FURTHER         |           |                 |  |
| PROCESSING      | 42 693.0  | 0.0             |  |
| FLARED          | 0.0       | 0.0             |  |
| METERING        |           |                 |  |
| DIFFERENCE      | 0.0       | 0.0             |  |
|                 | 104 021.0 | 121.5           |  |



## BITUMEN SYNTHETIC PLANT OPERATIONS

2

|                   |                        | 1989                       |           | DECEMBER  |           |            |  |
|-------------------|------------------------|----------------------------|-----------|-----------|-----------|------------|--|
|                   |                        | YEAR                       |           | MONTH     |           |            |  |
| OPERATOR          | PRODUCTS               | INTERMEDIATES              |           |           |           |            |  |
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE      | SULPHUR   | BITUMEN   | DISTILLATE |  |
|                   | 3<br>m                 | 3<br>m                     | TONNES    | TONNES    | 3<br>m    | 3<br>m     |  |
| SUNCOR            |                        | Diluent<br>Naptha          |           |           |           |            |  |
| OPEN. INV.        | 77 944.4               | 44 767.5                   | 2 816 780 | 149 149   | 34 430.2  | 5 610.5    |  |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0         | 0         | 0.0       | 0.0        |  |
| PRODUCTION        | 248 707.8              | 3 820.8                    | 72 881    | 9 615 (A) | 300 714.6 | 262 585.6  |  |
| CLOS. INV.        | 79 374.9               | 45 323.0                   | 2 818 449 | 145 177   | 21 578.9  | 5 311.7    |  |
|                   | 247 277.3              | 3 265.3                    | 71 212    | 13 587    | 313 565.9 | 262 884.4  |  |
| FURTHER           |                        |                            |           |           |           |            |  |
| PROCESSING        | 0.0                    | 0.0                        | 0         | 0         | 313 566.0 | 261 891.6  |  |
| FUEL              | 2 960.8                | 0.0                        | 71 212    | 0         | 0.0       | 845.4      |  |
| FLARED/WASTE      | 0.0                    | 3 265.3                    | 0         | 509       | 0.0       | 121.9      |  |
| MET. DIFF.        | (61.2)                 | 0.0                        | 0         | 0         | (0.1)     | 25.5       |  |
| DELIVERIES        | 244 377.7              | 0.0                        | 0         | 13 078    | 0.0       | 0.0        |  |
|                   | 247 277.3              | 3 265.3                    | 71 212    | 13 587    | 313 565.9 | 262 884.4  |  |
| SYNCRUDE          |                        | Diluent<br>Naphtha         |           |           |           |            |  |
| OPEN. INV.        | 21 344                 | 64 401                     | 8 365 603 | 1 486     | 159 729   | 59 738     |  |
| FR. SUNCOR        | 0                      | 0                          | 0         | 0         | 0         | 0          |  |
| PRODUCTION        | 581 098 (B)            | (2 319)(C)                 | 67 400    | 24 130    | 847 987   | 641 606    |  |
| CLOS. INV.        | 24 205                 | 57 483                     | 8 433 003 | 1 410     | 230 152   | 132 129    |  |
|                   | 578 237                | 4 599                      | 0         | 24 206    | 777 564   | 569 215    |  |
| FURTHER           |                        |                            |           |           |           |            |  |
| PROCESSING        | 0                      | 0                          | 0         | 0         | 777 564   | 569 215    |  |
| FUEL              | 4 311                  | 0                          | 0         | 0         | 0         | 0          |  |
| FLARED/WASTE      | 0                      | 4 599                      | 0         | 0         | 0         | 0          |  |
| MET. DIFF.        | (5)                    | 0                          | 0         | 0         | 0         | 0          |  |
| DILUENT CARRYOVER |                        |                            |           |           |           |            |  |
| /RERUN            | 0                      | 0                          | 0         | 0         | 0         | 0          |  |
| TO SUNCOR         | 0                      | 0                          | 0         | 0         | 0         | 0          |  |
| DELIVERIES        | 573 931                | 0                          | 0         | 24 206    | 0         | 0          |  |
|                   | 578 237                | 4 599                      | 0         | 24 206    | 777 564   | 569 215    |  |



|                     |            |          | 1989                  |             | DECEMBER |  |
|---------------------|------------|----------|-----------------------|-------------|----------|--|
|                     |            |          | YEAR TO DATE          |             |          |  |
| SUNCOR<br>OIL SANDS |            |          | SYNCRUDE<br>OIL SANDS |             |          |  |
|                     | TONNES     | GRADE    |                       | TONNES      | GRADE    |  |
| PRODUCTION          | 39 980 603 | 12.02    | PRODUCTION            | 110 355 250 | 10.44    |  |
| PROCESSED           | 39 980 603 | 12.02    | PROCESSED             | 108 796 928 | 10.46    |  |
| EXTERNAL ENERGY     |            |          | EXTERNAL ENERGY       |             |          |  |
|                     | GAS        | ELECTRIC |                       | GAS         | ELECTRIC |  |
|                     | 3 3        |          |                       | 3 3         |          |  |
|                     | 10 m       | GWh      |                       | 10 m        | GWh      |  |
| PURCHASED           | 237 390.2  | 190.3    | PURCHASED             | 1 107 809.0 | 193.3    |  |
| GENERATED           | 0.0        | 330.6    | GENERATED             | 0.0         | 1 209.8  |  |
|                     | 237 390.2  | 520.9    |                       | 1 107 809.0 | 1 403.1  |  |
| PLANT USE           | 110 027.9  | 520.9    | PLANT USE             | 493 576.0   | 1 403.1  |  |
| FURTHER             |            |          | FURTHER               |             |          |  |
| PROCESSING          | 122 342.2  | 0.0      | PROCESSING            | 614 233.0   | 0.0      |  |
| FLARED              | 2 868.4    | 0.0      | FLARED                | 0.0         | 0.0      |  |
| METERING            |            |          | METERING              |             |          |  |
| DIFFERENCE          | 2 151.7    | 0.0      | DIFFERENCE            | 0.0         | 0.0      |  |
|                     | 237 390.2  | 520.9    |                       | 1 107 809.0 | 1 403.1  |  |





## BITUMEN SYNTHETIC PLANT OPERATIONS

4

1989 DECEMBER

YEAR TO DATE

| OPERATOR          | PRODUCTS               |                            | INTERMEDIATES |          |             |             |
|-------------------|------------------------|----------------------------|---------------|----------|-------------|-------------|
|                   | SYNTHETIC<br>CRUDE OIL | OTHER<br>HYDRO<br>-CARBONS | COKE          | SULPHUR  | BITUMEN     | DISTILLATE  |
|                   | 3<br>m                 | 3<br>m                     | TONNES        | TONNES   | 3<br>m      | 3<br>m      |
| SUNCOR            |                        | Diluent<br>Naptha          |               |          |             |             |
| OPEN. INV.        | 84 125.5               | 48 123.3                   | 2 497 965     | 159 200  | 32 386.7    | 4 386.4     |
| FR. SYNCRUDE      | 0.0                    | 0.0                        | 0             | 0 (A)    | 0.0         | 0.0         |
| PRODUCTION        | 3 343 614.5            | 51 409.2                   | 1 028 237     | 130 526  | 4 389 179.0 | 3 616 598.9 |
| CLOS. INV.        | 79 374.9               | 45 323.0                   | 2 818 449     | 145 177  | 21 578.9    | 5 311.7     |
|                   | 3 348 365.1            | 54 209.5                   | 707 753       | 144 549  | 4 399 986.8 | 3 615 673.6 |
| FURTHER           |                        |                            |               |          |             |             |
| PROCESSING        | 0.0                    | 0.0                        | 0             | 0        | 4 399 986.8 | 3 573 098.7 |
| FUEL              | 41 717.6               | 0.0                        | 698 849       | 0        | 0.0         | 13 479.0    |
| FLARED/WASTE      | 0.0                    | 54 209.5                   | 0             | 9 002    | 0.0         | 9 505.2     |
| MET. DIFF.        | 2 625.3                | 0.0                        | 8 904         | (19 096) | 0.0         | 2 325.0     |
| DELIVERIES        | 3 304 022.2            | 0.0                        | 0             | 154 643  | 0.0         | 17 265.7    |
|                   | 3 348 365.1            | 54 209.5                   | 707 753       | 144 549  | 4 399 986.8 | 3 615 673.6 |
| SYNCRUDE          |                        |                            |               |          |             |             |
| OPEN. INV.        | 25 125                 | 66 761                     | 7 529 243     | 1 545    | 233 159     | 121 244     |
| FR. SUNCOR        | 0                      | 0                          | 0             | 0        | 0           | 0           |
| PRODUCTION        | 8 630 797 (B)          | 53 820 (C)                 | 903 760       | 360 300  | 10 318 810  | 8 583 000   |
| CLOS. INV.        | 24 205                 | 57 483                     | 8 433 003     | 1 410    | 230 152     | 132 129     |
|                   | 8 631 717              | 63 098                     | 0             | 360 435  | 10 321 817  | 8 572 115   |
| FURTHER           |                        |                            |               |          |             |             |
| PROCESSING        | 0                      | 0                          | 0             | 0        | 10 316 740  | 8 439 261   |
| FUEL              | 48 964                 | 0                          | 0             | 0        | 0           | 0           |
| FLARED/WASTE      | 0                      | 63 099                     | 0             | 0        | 0           | 0           |
| MET. DIFF.        | 2                      | (1)                        | 0             | 0        | 3 974       | 132 854     |
| DILUENT CARRYOVER |                        |                            |               |          |             |             |
| /RERUN            | 0                      | 0                          | 0             | 0        | 0           | 0           |
| TO SUNCOR         | 0                      | 0                          | 0             | 0        | 0           | 0           |
| DELIVERIES        | 8 582 751              | 0                          | 0             | 360 435  | 1 103       | 0           |
|                   | 8 631 717              | 63 098                     | 0             | 360 435  | 10 321 817  | 8 572 115   |







